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About Release Notes

June 8, 1999

This publication contains information about Release 4.6.5 of the Lotus Notes® and Lotus Domino™ software products. The Release Notes documentation contains the following chapters:

**What's New** introduces you to Notes, Domino Designer, and Domino Server, tells you about the new features and enhancements in this release, and points you to further information.

**Things You Need to Know** describes supported platforms and environments and other information that you need to know before installing this release.

**Troubleshooting** describes limitations and issues associated with this release of Notes and Domino.

**Documentation Updates** describes last-minute information and corrections that are not included in the Notes, Domino Designer, and Domino server Help databases and printed documentation.

**Interoperability** describes known restrictions or potential incompatibilities between different versions of Notes and Domino.

**History of Changes** contains cumulative information about fixes and enhancements made in past releases of Lotus Domino and Notes.

You can edit the documents in the online version of the Release Notes database to suit the particular needs of your site. However, if you do edit the contents of the database, it must be strictly for the sole use of users within your organization. You cannot resell or otherwise distribute this documentation, modified or unmodified, to anyone outside your organization. Lotus® assumes no responsibility for the technical accuracy of any modifications made to this documentation.

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Chapter 1 - What's new?

Welcome

Client, Designer, Server

Welcome to Lotus Domino and Notes Release 4.6.5

These Release Notes contain information on new enhancements and known issues in this release. Be sure to read the topics in the Things You Need to Know chapter, and the list of issues in the Troubleshooting chapter, before installing the software.

Previous features and enhancements for Lotus® Notes (such as Releases 4.6, 4.6.1, 4.6.2, 4.6.3, 4.6.4 and 4.5.7) are available in the History of Changes chapter. All features and enhancements listed in that chapter are also included in Release 4.6.5.

In the New Enhancements section of the What's new? chapter of these Release Notes, new information is now being included along with each SPR number and fix description. This new bracketed information indicates in which version the enhancement was first introduced. If the enhancement was first addressed in a Quarterly Maintenance Update (QMU), that will be specified as well as the first scheduled Quarterly Maintenance Release (QMR) in which the enhancement was included. For example, a description specifying [4.6.2, 4.6.1a, 4.5.5] indicates the same issue affected both the 4.6x and 4.5x code streams and was subsequently corrected in both. Specifically in this example, the issue was first addressed in the 4.6.1a QMU of the 4.6x line and QMR 4.5.5 of the 4.5x line. It was also then corrected in the 4.6.2 QMR. Once included, the enhancements carry forward into the subsequent maintenance releases of the same code stream.

Client, Designer, Server

Release Notes available in online and printed formats

The Release Notes are available in a variety of formats and locations:

- Notes Database format on the install CD-ROM and downloadable over the Internet.
- Adobe PDF format on the install CD-ROM and downloadable over the Internet.
- Browsable using a Web browser (over the Internet, from www.notes.net).
- A printed book that can be ordered from Lotus.

An online version in Notes Database format (README.NSF) resides on the root of the Domino and Notes CD-ROM. You can view it directly from the CD using a Notes R4.x client. This database is also installed during the Notes Client or Domino Server install, placed in the Notes data directory.

Beginning in Release 4.6.4, an online version in Adobe Portable Document format (README.PDF) is also available on the root of the CD-ROM. PDF files can be read using Adobe Acrobat Reader software. Some free Acrobat Reader software is available on the Domino and Notes 4.6.5 CD-ROM. See the

You can browse the Release Notes directly, using only a Web browser and an Internet connection. To do so, point your Web browser at the URL www.notes.net/doc and find the release you want.

Finally, you can order printed Release Notes from Lotus as part of the Yellowbooks program. For more information contact Lotus via the Internet at www.lotus.com/educationstore.

The NSF online Release Notes are often more up-to-date than the printed or PDF-online Release Notes. This is primarily due to production schedules. You can visit the Notes.net Documentation site at http://www.notes.net/doc for the very latest versions of the Domino and Notes Release Notes.

Client, Designer, Server

Combined release notes for Notes client and Domino server

Beginning in Notes and Domino Release 4.6.2, the printed release notes are combined into a single book instead of the separate books previously used for the client and the server. In addition, the online release notes are combined into one database. Therefore, you will see a single readme.nsf (readme.pdf for Adobe PDF format) for information about the Notes client and the Domino server. In R4.6 and R4.6.1, there was a readmecl.nsf for the Notes client and a readmesr.nsf for the Domino server.

The online release notes look much like they always have. However, to maintain the convenience offered by separate release notes, you will now be able to see the notes categorized as Client, Designer, and Server in the combined release notes databases. When viewing documents in the online version of the combined release notes database, please be aware the categories for Designer, Client and Server are chosen using the following guidelines:

Designer - Topics that are of interest specifically to designers of Notes applications, plus, product issues that only impact persons using the Designer version of the Notes client.

Client - Topics about general client usage, plus, product issues that may impact persons using any Notes client version (including Mail clients, Desktop clients, and Designer clients).

Server - Topics that are of interest to server administrators and site administrators, plus, product issues that impact the Domino server or overall site architecture.

Client, Designer, Server

Reporting Notes and Domino fixes and enhancements

A comprehensive list of all fixes performed and announced via the Release Notes can be found in the online Release Notes database that ships with each release of the Lotus Notes and Lotus Domino core product. Previous features and enhancements for Notes and Domino (such as Releases 4.6, 4.6.1, 4.6.2, 4.6.3, 4.6.4 and 4.5.7) are available in the History of Changes chapter. All features and enhancements listed in that chapter for 4.5.x and 4.6.x releases are also included in Notes and Domino Release 4.6.5.

Official Fix Lists of SPR fixes and enhancements for the Notes and Domino core product are also available at the Notes.net web Site. (These Notes.net Fix Lists are segregated by product, however, rather than comprehensively presented in one location like the fixes reported in the on-line Release Notes database. The Fix Lists are available, grouped by individual product, on the Incremental Installer pages in the "Download" area of Notes.net).

In addition to being shipped with the core, the online Release Notes databases containing all the comprehensive Fix Fists for a release are available for download or live web-browser viewing at Notes.Net. The Documentation site at Notes.net is located at:

http://www.notes.net/doc
About using Lotus Web sites to find additional information

The following Lotus Web sites are designed to help you locate the latest information on Domino and Notes and other Lotus products:

http://www.notes.net is the site brought to you by Iris Associates, the group that develops Notes and Domino. This site contains various Notes-related software downloads (including trial versions of Notes/Domino), a technical webzine with articles for end-users, application developers and systems administrators, and an active discussion cafe with several discussion forums for exchanging ideas about Notes/Domino and sharing your thoughts with Iris.

- http://www.notes.net/doc contains Domino and Notes documentation databases and Adobe Acrobat .pdf files that you can download, information on ordering additional documentation, product tips, and documentation feedback forms.

http://www.lotus.com is the Lotus Development Corporation home page, which contains general information on all Lotus products and services, including press releases, downloadable software, support, and purchasing information. You can use this Web site to access the following Web pages. You can also access these pages directly using the specific URL.

- http://www.lotus.com/developers contains the latest tools and information for developing Domino applications for Notes and the Web and integrating them with back-end systems, such as DBMS. Use this Web site to download the latest version of the Notes APIs, participate in software discussions, learn the latest tips and tricks, and review white papers and Redbook information.


- http://www.lotus.com/partners contains Notes application development and Business Partner information, including development tips and techniques, innovative applications, developer discussions, and updates on the latest product releases. You can also use this Web site to find out information and request an application for the Lotus Business Partner program.

- http://www2.lotus.com/education.nsf contains Lotus Education information on all Lotus products, including course descriptions, schedules, Lotus Authorized Education Center locations, and Lotus certification information.

- http://www.support.lotus.com contains support information on all Lotus products, including common questions and solutions, user discussions, downloadable files, and Lotus support phone numbers. You can also use this Web site to search the Knowledge Base for technical information on Lotus products.

- http://www.lotus.com/notesmta contains information on Lotus Notes Messaging Services, which lets Notes administrators set up mail routing from different mail systems. These Messaging Services include message transfer agents (MTAs), such as the SMTP/MIME, cc:Mail, and X.400 MTAs.

To access information on the Web, you must use a Web browser, such as Web Navigator, Netscape Navigator, or Internet Explorer. If you need information on connecting your Notes workstation to the Web, contact your Lotus Notes server administrator.
New Features

Notes and Domino Release 4.6.5 features and enhancements

SMTP MTA
The Release 4.6.5 SMTP MTA supports three new NOTES.INI variables.

- The SMTPMTA_MAPDELEGATE_INBOUND variable will cause SMTP MTA to map From: and Sender: in inbound SMTP message header to Principal: and From: (respectively) in received messages.

- SMTPMTA_ENABLE_FIFO changes SMTP MTA processing of outbound mail in SMTP.BOX so it is FIFO (first in, first out). This change also requires the SMTP.BOX design to updated with a new R4.6.5 template.

- SMTPMTA_AVOID_GMTOFFSET will cause SMTP MTA to preserve sender timezone in SMTP header rather than a GMT offset.

For more information about these new variables, see the "Additional New Features" section in the Things you need to know chapter of the Release Notes.

New Enhancements
Following is a list of new enhancements made to the product for this release.

Administration Client

- SPR# JCOS3NWLPK - Allow all Administrators listed in the Server document to set database quotas. In previous releases, only the first person listed was authorized. [4.6.4a,4.6.5]

- SPR# SONL3JVKVY - Prevent a database which is created from one of the Advanced Templates from being marked as an Advanced Template itself. This problem prevented such databases from appearing in the lists for File->Tools->Server Administration->Database Tools. [4.6.5]

API - MAPI

- SPR# SPAY3WENJ8 - Fix a regression problem which resulted in the loss of any body text typed into the message when sent from Excel (the Excel spreadsheet itself would arrive intact as an attachment). This problem required the removal of the fix for DANO3J7TDJ (which was done in R4.6.2 to prevent the text of draft messages from being lost when created from a MAPI client using the WordMail editor). Another fix for that particular problem will be attempted in a future QMR. [4.6.5]
API

- SPR# GFLY3VSGEK - Fix a problem where an agent failed to render a document for sending when it encountered the formula for controlled access sections. [4.6.5]

- SPR# IDEA46FLFM, MRIT45WLJG - Prevent a crash which occurred if the variable, NumNames, passed to the function, NAMELookup, was set to zero. [4.6.5]

- SPR# JSAI45PNY9 - Fix a problem with SchContainer_New causing an access violation because the NSF package was initialized incorrectly. [4.6.5]

- SPR# MDLS3JMTJ2 - Fix a problem that prevented the last document in a category, if it was the only document in that category to which the user had access, from being returned when NIFindByKey was called. Before this fix, his problem also exhibited itself when the GetDocumentByKey method on a NotesView object was used. [4.6.5]

Calendar & Scheduling

- SPR# MQUE3R8LBS - Prevent the Unix client from hanging when pressing the Check Calendar button while composing a Calendar Entry. [4.6.5]

Client - Unix only

- SPR# PNGG47NJRG - Fix a hang on Unix clients when using the Windows Metafile format in a document. [4.6.5]

Client

- SPR# AELE46ZT6U - Allow encrypted databases to be accessed after the local ID file has been issued a new public/private key pair. [4.6.5]

- SPR# BDME464N95 - Fix a memory leak when multiple Person documents are selected for an Administration Process action, eventually causing an out of memory condition. If the client is being run on a server, the server will run out of memory. [4.6.5]

- SPR# CLEC43UL2C - Fix a performance problem resulting from a workstation reloading the design collection of a database each time a view or folder was opened for the first time. Obviously, this performance problem would be greatly amplified on slow connections. [4.6.4a,4.6.5]

- SPR# DMAE46KK2W - Prevent an erroneous error message, “Internet Explorer 3.0 or greater is not available..." from displaying when choosing 'Notes with Internet Explorer' in the user's Location document, even though Internet Explorer 5.x is installed. (The browser worked after saving the Location document; this was just an incorrect error message). [4.6.5]
- SPR# MEMR47DQHT - Fix a problem with structured text import when importing a file with a large body, which previously caused the error, "Field length stored in document is incorrect," to display. [4.6.5]

- SPR# MHAC45STRB - Use any new printer settings which are selected immediately after the user changes the printer selection in Notes. [4.6.5]

- SPR# PAN3ZYEEY - Prevent a crash (when type-ahead is enabled) if up and down arrows are used to navigate multi-line To:, CC:, and BCC: fields. [4.6.5]

- SPR# PWIN457FQH - Fix a problem in which mail was not saved as encrypted when the user expected it to be. Previously, if the User Preference for "Encrypt saved mail" was not set and the user used the Delivery Options dialog to encrypt mail for sending, the mail would not be saved encrypted if the user's Location Document specified the mailfile pathname using forward slashes (/) instead of backward slashes (\). The sent mail would be encrypted as expected. [4.5.7b, 4.6.5]

- SPR# VAN44TJ5J - Fix a problem with signatures that could occur under specific conditions when forwarding mail. [4.6.4a, 4.6.5]

Client, Designer, Server

IMAP Mail Server

- SPR# CMAS465HUY - Fix a crash of the IMAP server when it encountered a message which was being forwarded for the fifth time. Now, the server will stop at 4 levels of forwarding and move the rest of message into a file attachment: (forwarded.eml). [4.6.5]

Client, Designer, Server

Java

- SPR# KBET3TTR4H, BLEE46KJYL - Fix a problem which prevented JAVA applets and applications from accessing numeric data using the getItemValue methods on a document. [4.6.5]

- SPR# ZYLI44K5BB - Fix a crash which happened in certain Java applets running in Japanese and Korean Windows NT systems. This problem affected the Lotus eSuite applications. [4.6.4a, 4.6.5]

Client, Designer, Server

LotusScript

- SPR# MSAN46AUSR - Fix a memory overwrite problem which would cause various unpredictable crashes. [4.5.7b, 4.6.5]

- SPR# WEVT46GT82 - Prevent a crash caused by stopping LotusScript (by pressing CTRL+BREAK) when it is calling the GetNextDatabase method on a NotesDbDirectory. [4.6.5]
Client, Designer, Server

**POP3 Mail Server**

- SPR# IGJR3XJUG4 - Fix a problem with the Internet domain suffix not being appended to the sender's name in the FROM address for POP3 mail users; this caused an inability to reply to messages. This problem was introduced in R4.6.2. [4.6.5]

Client, Designer, Server

**Server - Unix only**

- SPR# MPEY3TQPK6 - Fix a problem when using Remote Console on Unix servers that caused the server console to hang until a <CR> was entered (after a remote console command was sent). [4.6.5]

- SPR# MYKG43GFMS - Allow the proper display of characters on Unix servers when using traditional Chinese BIG5 locale. [4.6.4a, 4.6.5]

Client, Designer, Server

**Server**

- SPR# AGRM42HHQ9 - Fix certain cases of the AMGR_DISABLEMAILLOOKUP notes.ini variable not working as intended. The problems have been present since R4.6 shipped and were recently diagnosed successfully. This notes.ini variable is intended to allow agents triggered by new mail to work on servers other than the user's home server, to support mailfile replicas. [4.6.4a, 4.6.5]

- SPR# ARID3WPPJN - Remove the "-L" argument from the Compact command because the parameter does not work as expected. Expected functionality, which did not occur, would have been for Compact running with the "-L" parameter to allow users access to the database during compacting. This functionality was never intended. [4.6.5]

- SPR# CMUY47JPTG - Fix a memory leak which previously occurred when retrieving the unread list in a very large database. [4.6.5]

- SPR# GFLY47GH2W - Prevent the Adminp process from changing the PasswordDigest item flags when modifying the field. [4.6.5]

- SPR# JHUO42CNTA - Prevent a crash in the router when it encounters fields with certain names in the Address Book. This problem was a result of the Address Book being customized and the customer adding a field with a name which was already in use. [4.6.5]

- SPR# JYUN3VWR3K - Fix Rename Person requests in Adminp to process the SMTP and the cc:Mail MTA Administrator fields in the Address Book. [4.6.5]

- SPR# MDLS47TKSL - Fix a problem which previously caused some Server Connection and Program documents (those which specify a zero interval and which span midnight) to be missed under some circumstances. [4.6.5]
Lotus Notes and Domino 4.6.5 Release Notes

Chapter 1 - What's new?

- **SPR# MKIR463QZQ** - Fix a problem with the cluster replicator leaking memory when a connection document is set up for a server to replicate with a cluster by specifying the cluster name. Eventually the server would report, "Maximum number of memory segments has been exceeded," and would need to be restarted. [4.6.4a, 4.6.5]

- **SPR# RGUR3ZERE8** - Use a truncated version of the requested title for a newly created database when the number of characters exceeds 32. Previously, the filename was used instead. [4.6.5]

- **SPR# SGOE469PYJ** - Prevent a server crash which can occur during cluster replication when there are multiple replicas of the same database (copied via the file system) on a given server. [4.6.5]

- **SPR# SVRO465TH6** - Prevent individual notes from having a Created time in the future when they are created on a server during and immediately after many documents are deleted sequentially (by any task). [4.6.4a, 4.6.5]

**Client, Designer, Server**

**SMTP MTA**

- **SPR# BACY42YJHG** - Prevent SMTP MTA outbound message failure before the retry interval/retry limit is hit when using a relay. [4.6.5]

- **SPR# BACY45TNJF** - Prevent an SMTP MTA error regarding 'omsgcnv : Outbound conversion handler shutdown due to fatal error: no such entry' when processing the Delivery Failure Report for a message that fails conversion. [4.6.5]

- **SPR# BACY45VPJB** - Prevent the SMTP MTA omsgcnv error "Unable to convert message: CVS: InvalidBufferSize" caused by a very large (>32KB) word embedded in the outbound message. [4.6.5]

- **SPR# BRAR44HMY6** - Prevent the SMTP MTA from dropping quotes, which would result in an illegal phrase within outbound To: Internet addresses that contain a quoted phrase (because of periods and/or accented characters). [4.6.5]

- **SPR# BRAR44WJS7** - Correct SMTP MTA inbound processing so periods used as space replacement characters get translated to spaces within inbound fullname To: addresses that contain adjacent Notes domains. [4.6.5]

- **SPR# HDAN46CLQR** - Prevent "loss" of embedded .GIF and .JPEG images sent from a Notes R5 client via the SMTP MTA of an R4 Domino Server. [4.6.5]

- **SPR# JCCN45KTUF, JCCN469T6U** - Correct an SMTP MTA decapsulation failure. This failure prevented decapsulation of any incoming encapsulated message once the MTA converted an inbound nested message/rfc822 message containing encap2 or encap3 database files. [4.6.5]

- **SPR# JFOR469UEX** - Prevent an SMTP MTA crash of the imsgcnv.exe task while detecting the MIME boundary string of MIME multipart messages and the allocation of 64k work buffers during parsing of an inbound message. [4.6.5]
- SPR# JFOR46FREU - Correct a problem causing the "SMTP_I18n_phrase=1" Notes.ini variable to malfunction with a long Notes organization name. [4.6.5]

- SPR# JPEY42D7WC - Correct a problem in the SMTP MTA that causes RFC822 Header information to be incomplete after inbound conversion when using the configuration option that stores header information. [4.6.5]

- SPR# KGEW4573TN - Prevent configuration of the "SMTP_EXACT_MATCH_ALL=1" parameter in the Notes.ini from disabling SMTP MTA relay capability. [4.6.5]

- SPR# KHAD3VDMUG - Correct the SMTP MTA DRT task memory leak caused by undeliverable mail notifications when the "SMTP_REJECT_RELAYS" Notes.ini variable is enabled. [4.6.5]

- SPR# SRAO45CLJ3 - Add Notes.ini variable "SMTPMTA_MAPDELEGATE_INBOUND=1" to cause the SMTP MTA to map the From: and Sender: in inbound SMTP message headers to Principal: and From:, respectively, in received messages. [4.6.5]

- SPR# SRAO47NR3P - Modify the SMTP MTA so it will map the RFC 821 (Internet) address in the Recipients field to the To Header if the outbound message contains none of the following fields: Sendto, CopyTo, BlinCopy. This has been done to resolve the problem where return receipts do not contain any To, CC or BCC recipient (which may cause some firewalls to filter reject these messages). [4.6.5]

- SPR# TPEL45PS8K - Correct the SMTP MTA processing of the VRFY command when given a username containing an underscore so it returns properly. [4.6.5]

- SPR# WTUZ438NLT - Prevent the SMTP MTA from inserting extra blank lines approximately every 32K when sending large text files in a message body outbound. [4.6.5]

- SPR# WVMN3WWKNR - Correct the SMTP MTA problem causing some messages with invalid addresses to get trapped in SMTP.BOX under "Pending Transmission" status, without being transmitted or transferred to DEAD state. [4.6.5]

- SPR# YSHA437GYJ - Add a Notes.ini variable "SMTPMTA_ENABLE_FIFO=1" to change SMTP MTA processing of outbound mail in SMTP.BOX so it is FIFO (first in, first out). This change also requires the SMTP.BOX design to be updated with a new 4.6.5 template. [4.6.5]

Client, Designer, Server

**Template - Cluster Analysis**

- SPR# JPII3DCLJ5 - Provide information in the Help - About document for the Cluster Analysis database. [4.6.5]
Client, Designer, Server

**Template - Discussion**

- SPR# LEZ3YVDEJ - Prevent the "Archive Selected Documents" agent in a Discussion database from hanging when it encounters certain incorrectly formed documents. [4.6.5]

Client, Designer, Server

**Template - Public Address Book**

- SPR# IPAi45MSVQ - Change the prompt text for the Delete User, Delete Group, and Delete Server buttons in the Address Book so that administrators will understand they are deleting all occurrences of the name domain-wide, not just that document. [4.6.5]

Client, Designer, Server

**Template - Web mailfile**

- SPR# GRT3X3C5F - Prevent the From field in a document created in the Web mailfile from being saved as a text list instead of a text field. This behavior was preventing certain mail gateways from being able to route the mail. [4.6.4a,4.6.5]

Client, Designer, Server

**Web Navigator**

- SPR# DROE44LMDC - Fix an intermittent crash of the client caused by memory corruption when accessing certain web sites. [4.6.5]

- SPR# WAR3XPJFC - Allow the username and password, which is required to pass through a proxy server and is entered by the client, to work correctly when "Browse through the InterNotes server" is selected in the user's Location document. [4.6.5]

- SPR# WEBB3Z2T5U - Fix the Notes browser so it accepts the user@host URL syntax instead of reporting an error. [4.6.5]

Client, Designer, Server

**Web Server - Unix only**

- SPR# MSAN45GTSP - Prevent the HTTP server from crashing when the Domino server was shutdown before all HTTP threads had finished executing. [4.6.4a,4.6.5]
Client, Designer, Server

**Web Server**

- SPR# CMUY45TRD9 - Fix a crash which occurs when parsing names for freetime lookups. The crash is intermittent since the location of the memory containing the names is important in determining whether or not a crash will occur. [4.6.5]

- SPR# JGIM3SRUKQ - Change deletion of attachments on a form to occur before QuerySave and Input Validation formulas are run. Otherwise, new attachment(s) could not be added if there was a check for a maximum number of attachments allowed, even if the old attachment(s) had been deleted. This change restores the behavior of the HTTP Server as it was in R4.5.x. [4.6.5]

- SPR# MKEN46WQYM - Fix a potential denial of service attack on the HTTP server. [4.6.5]

- SPR# MSAN45LSWW - Fix a crash in the HTTP server which occurred when multiple threads were attempting to initialize an SSL session. [4.6.4a,4.6.5]

- SPR# NBAR3GSQTB - Fix a problem which caused applications to send mail when a document was loaded rather than when the user clicked on a hot spot where @MailSend was used. [4.6.5]

- SPR# PDOE3SQKUZ - Prevent the HTTP server from renaming an attachment that was deleted and reattached in the same submission (because it was thought to be a duplicate attachment name). [4.6.5]

- SPR# PSEO462M7J - Fix a problem with the CGI Variable QUERY_STRING_DECODED not decoding plus signs. [4.6.5]

- SPR# TBOD45GPLB - Fix a crash in the HTTP server under heavy load with SSL authentication. [4.6.4a,4.6.5]

Client, Designer, Server

@functions

- SPR# GRT46HG7L - Fix a problem which caused certain numbers to be rounded incorrectly when the @integer function was used. [4.6.5]
Chapter 2 - Things you need to know

Directory Install and CD-ROM Structure

Client, Designer, Server

Lotus Notes 4.6.5 directory structure

Use the following information to find where the installation files for your specific operating system are located on the Notes CD-ROM. Refer to the following sections for layout information about Notes Release 4.6.5 CD-ROMs, including what can be found in directories that do not contain Notes installation files.

- README.NSF
- README.PDF
- START.TXT
- APPS
  - ADOBE
  - DICTNRY
  - MTA
    - CCMAIL
  - NGD
  - SYSMGMT
    - AGENTS
  - TOOLS
    - CCMAIL
    - MSMAIL
    - SRVLOAD
- DRIVERS
  - ATALK
- SERVER
  - NETWARE
    - INSTALL
  - OS2
    - INSTALL
  - W32ALPHA
    - INSTALL
  - W32INTEL
    - INSTALL
CD-ROM directory structure for UNIX platforms:
The UNIX CD-ROM contains the following:

README.NSF
README.PDF
START.TXT
APPS
   ADOBE
   DIAGS
   DICTNRY
   SYSGMGT
UNIX
   COPYDIST
   INSTALL
   SETS
   TOOLS

The sets directory and tools directory are used by the Install program only. For the International English version of the CD-ROM, international language dictionaries are included as described in "Information about Additional Items on the CD-ROM" in these Release Notes.

Client, Designer, Server

Information about additional items on the CD-ROM

In addition to the Notes installation files, there are the following items on the Notes 4.6.5 CD-ROM for the PC platforms:

- Language dictionary files
- Notes Global Designer
- Lotus Domino Management Agents
- Apple Talk for OS/2 installation files
- Informational Notes databases
- cc:Mail to Notes Migration Tools
- cc:Mail to Notes Upgrade Wizard
- cc:Mail MTA
- Microsoft Mail to Notes Migration Tools
- Domino Server.Load

The Notes for UNIX 4.6.5 CD-ROM contains only the language dictionary files and Lotus Domino Management Agents.
**Language dictionary files**
The language dictionary files are used for spell-checking within Notes. The following language dictionary files are included on the Notes 4.6.5 CD-ROM in the `\APPS\DICTNRY` directory:

<table>
<thead>
<tr>
<th>Language</th>
<th>File</th>
</tr>
</thead>
<tbody>
<tr>
<td>American English</td>
<td>lotusen1.dic</td>
</tr>
<tr>
<td>British (ise) English</td>
<td></td>
</tr>
<tr>
<td>British (ize) English</td>
<td></td>
</tr>
<tr>
<td>American Medical</td>
<td>lotusme1.dic</td>
</tr>
<tr>
<td>British Medical (ise)</td>
<td></td>
</tr>
<tr>
<td>British Medical (ize)</td>
<td></td>
</tr>
<tr>
<td>Australian English</td>
<td>lotusa1.dic</td>
</tr>
<tr>
<td>Brazilian Portuguese</td>
<td>lotuspo1.dic</td>
</tr>
<tr>
<td>Portuguese</td>
<td></td>
</tr>
<tr>
<td>Canadian French</td>
<td>lotusfr1.dic</td>
</tr>
<tr>
<td>French</td>
<td></td>
</tr>
<tr>
<td>Catalan</td>
<td>lotusct1.dic</td>
</tr>
<tr>
<td>Czech</td>
<td>lotuscz1.dic</td>
</tr>
<tr>
<td>Danish</td>
<td>lotusda1.dic</td>
</tr>
<tr>
<td>Dutch General</td>
<td>lotusdu1.dic</td>
</tr>
<tr>
<td>Dutch Preferred</td>
<td></td>
</tr>
<tr>
<td>German</td>
<td>lotusge1.dic</td>
</tr>
<tr>
<td>German (ss)</td>
<td></td>
</tr>
<tr>
<td>Italian</td>
<td>lotusit1.dic</td>
</tr>
<tr>
<td>Norwegian</td>
<td>lotusno1.dic</td>
</tr>
<tr>
<td>Nynorsk</td>
<td></td>
</tr>
<tr>
<td>Russian</td>
<td>lotusru1.dic</td>
</tr>
<tr>
<td>Russian Jo</td>
<td></td>
</tr>
<tr>
<td>Spanish</td>
<td>lotussp1.dic</td>
</tr>
<tr>
<td>Swedish</td>
<td>lotussw1.dic</td>
</tr>
</tbody>
</table>

Notes automatically installs certain dictionary files that correspond to your language version of Notes. If you want to use one of the dictionary files listed above and find that it has not been installed automatically by Notes, copy the appropriate dictionary file (listed above) from the CD-ROM into your Notes data directory (C:\NOTES\DATA). This location is where the other dictionary files reside (dictionary files are identified with a .DIC file extension).

The following language dictionaries are installed when you install Notes for UNIX: French, German, International English, Italian, Portuguese, and Spanish.
Adobe Acrobat Reader Software
On the root directory of the Notes and Domino CD ROMs, release notes are now available in the Adobe® Portable Document Format (PDF). To view PDF documents such as the README.PDF, you can use the Adobe Acrobat® Readers contained in the \APPS\ADOBE directory. For platform specific instructions, refer to the START.TXT text file found on the root directory. Additional information and additional Acrobat Reader software can be found on the Adobe Systems Incorporated web site at:

http://www.adobe.com/

Notes Global Designer
Notes Global Designer is a productivity tool for use with Lotus Notes 4.6.5 that facilitates the development, maintenance and roll out of multilingual Notes applications while optimizing development costs. It is the key response to localizing Notes applications, and it presents new opportunities to an organization working in an international environment. Notes users worldwide can now have access to Notes applications in their preferred language efficiently, and at lower costs, thereby improving daily productivity. Notes Global Designer gives such organizations:

1. A complete solution when developing for the world.
2. A competitive advantage over other systems or development tools not built with localization in mind.
3. A way of optimizing translations across applications and maintaining consistency in any global application.
4. Translation management based on Notes Global Designer Glossaries.
5. An improved Return On Investment (ROI) across the world.

Installation information
Notes Global Designer is now stored in the \APPS\NGD directory as a self-extracting zip file. To install:

1. Copy the files ngd.exe and install.bat to a temporary directory on your hard drive.
   Note: Running either of these files directly from the CD will attempt to unzip the ngd.exe file and will fail.
2. Run install.bat from the temporary directory, which will unzip the ngd.exe file and start the Notes Global Designer installation program.

Notes:
1. If during Install you see a message such as, Could not write to \emintrn01.dll, it probably means that the Populator is running. Exit Install, close the Populator and then restart Install.
2. A "minimum install" installs all of the software, but not the glossaries.
Notes Global Designer platform information
The Notes Global Designer runs on Windows 32 bit platforms only.

The following are the requirements for application developers working with Notes Global Designer:
- Notes Release 4.6.5, the 32-bit version, running on Windows 95 or Windows NT 4.0 or later.
- 15Mb of disk space (160Mb if installing all the glossaries).
- 12Mb RAM (Windows 95) or 24Mb RAM (Windows NT) recommended.

The following are the requirements for users of databases built by Notes Global Designer:
- For unilingual databases: Notes Release 4.1 or higher running on any platform. Release 4.6.5 is recommended.
- For multilingual databases: Notes Release 4.5 or higher (Release 4.6.5 recommended) running on Windows 3.1, Windows 95, Windows NT, or OS/2 Warp.

The following are the requirements for translators working with Notes Global Designer glossaries:
- Notes Release 4.1 or higher running on any platform. Release 4.6.5 is recommended.

For more information on Notes Global Designer, you can visit the Notes Global Designer home page:
http://www.lotus.com/products/ngd.nsf

Lotus Domino 4.6.5 Management Agents
The Domino Management Agents contain the Domino SNMP Agent and Mail Reflector and run on Domino servers. The SNMP agent monitors server events and automatically forwards real-time alerts back to the NotesView management station or any SNMP supported console. With the SNMP agent you can collect Domino statistics, query the Domino server and restart the Domino server. The Notes Mail Reflector can be used by itself to help diagnose mail problems, and it supports the mail prober of Lotus NotesView.

This release on the CD-ROM supports Domino 4.5x and higher and Notes R4 servers on the following operating system platforms: IBM OS/2 and AIX, Microsoft Windows NT for Intel and Digital Alpha, Novell NetWare, HP-UX, and Sun Solaris for SPARC and Intel. The agents can be found in the \APPS\SysMgmt\Agents directory on the CD-ROM. The documentation can be found in \APPS\SysMgmt\Agents\Agents.NSF. See the What's New section of the documentation for a list of the latest enhancements to the Domino Management Agents. The latest versions (and the older version that supports Notes R3 servers) of the Domino Management Agents and documentation can always be found at the Lotus Systems Management Web site at:
http://www.lotus.com/home.nsf/welcome/systems

For customers interested in the NotesView Management Station, there are two versions of this product:
- NotesView for Workgroups for managing up to 10 Notes servers (Part # 029121)
- NotesView for the Enterprise for managing more than 10 servers (Part # 029001)

For more information on Lotus NotesView you can call 1-800-GO-LOTUS. Or visit the Lotus Systems Management Web site for updated information on the NotesView Management Station and Domino Management Agents:
http://www.lotus.com/home.nsf/welcome/systems

AppleTalk for OS/2 installation files
The AppleTalk for OS/2 installation files allow you to install the AppleTalk network protocol stack on a Notes server for OS/2. These files can be found in the DRIVERS\ATALK directory on the CD-ROM. For information on how to install the AppleTalk for OS/2 files, refer to the Configuring the Domino Network Guide which came with your Notes Release 4.6 package.
Informational Notes databases
There are many different Notes databases that may be of interest to you. In the past, informational databases have been available on the Notes CD-ROM. One such database is the Lotus Business Partner Catalog. In this database, Lotus provides the most up-to-date information about Business Partner services and products. If you would like to read this information, please visit our Business Partner catalog at the Lotus Web site:

http://www.lotus.com/

(This catalog is no longer included on the Notes CD-ROM.)

cc:Mail to Notes Migration Tools
The cc:Mail to Notes Migration Tools are designed for a customer-controlled migration. Using these tools, administrators can upgrade their mailboxes and post offices from cc:Mail (DB6 and DB8) to Notes mail files and Domino servers. The administrator can upgrade multiple post offices to a single Domino server, or split a single post office and upgrade it to different Domino servers.

These migration tools convert Directories and messages with the highest fidelity. The two components that make up these tools are the Admin Tool and the User Tool. Both the Admin Tool and User Tool can run as stand-alone programs, but only the Admin Tool can run as a Domino server add-in task.

You can find the Lotus cc:Mail to Notes Migration Tools in the \APPS\TOOLS\CCMAIL subdirectory on the Notes and Domino CD-ROM. They can also be found on the migration web site at:

http://www.lotus.com/products/migration.nsf

To install the Lotus cc:Mail to Notes Migration Tools, refer to the "Installation" section of the Things you need to know chapter in the current Domino and Notes Release Notes.

cc:Mail to Notes Upgrade Wizard
After the mail administrator upgrades cc:Mail mailboxes from cc:Mail post offices to Domino, users can convert their personal mail data, such as addresses, mailing lists, and message archives, to Notes.

Migrating personal mail data
Users migrate personal mail data by running the Lotus cc:Mail to Notes Upgrade Wizard from their workstations. The wizard guides users through converting their personal mail data to Notes data. Users launch the upgrade wizard locally or from a shared network directory.

Data migrated by the upgrade wizard
cc:Mail users can independently select to migrate private addresses, private mailing lists, and archives. The upgrade wizard lets users migrate their personal mail data from any local or mapped drive location.

You can find the Lotus cc:Mail to Notes Upgrade Wizard in the \APPS\TOOLS\CCMAIL subdirectory on the Notes and Domino CD-ROM. They can also be found on the migration web site at:

http://www.lotus.com/products/migration.nsf

To install the Lotus cc:Mail to Notes Upgrade Wizard, refer to the "Installation" section of the Things you need to know chapter in the current Domino and Notes Release Notes.

cc:Mail MTA
The Lotus Domino cc:Mail MTA is an optional integrated Message Transfer Agent (MTA) for use with Lotus Domino Release 4.5x (and later) servers. As a component of the Domino Messaging Services family of products, the MTA fully integrates Lotus cc:Mail and Lotus Notes networks. It delivers high fidelity interoperability between cc:Mail and Notes, transparently exchanging messages, rich text, attachments, and directories.
Configuration and management are easy since the MTA is integrated into a Domino server environment. Release 4.6.5 of the cc:Mail MTA offers significant improvements and extended ease of use.

You can find the Lotus Domino cc:Mail MTA in the \APPS\MTA\CCMAIL subdirectory on the Notes and Domino CD-ROM. It can also be found on the migration web site at:

http://www.lotus.com/products/migration.nsf

To install the Lotus Domino cc:Mail MTA, refer to the "Installation" section of the Things you need to know chapter in the current Domino and Notes Release Notes.

**Microsoft Mail to Notes Migration Tools**

The MS Mail to Notes Migration Tool Release 1 is designed for a customer-controlled migration. Using this tool, users can upgrade their mailboxes from Microsoft Mail Release 3.2 or later to Notes mail files on Domino servers.

This migration tool converts messages with the highest fidelity. It consists of a User Tool that runs as a stand-alone executable on a Notes client.

You can find the Lotus MS Mail to Notes Migration Tool in the \APPS\TOOLS\MSMAIL subdirectory on the Notes and Domino CD-ROM. It can also be found on the migration Web site at:

http://www.lotus.com/products/migration.nsf

To install the Lotus Microsoft Mail to Notes Migration Tool, refer to the "Installation" section of the Things you need to know chapter of the current Domino and Notes Release Notes.

**Domino Server.Load**

Domino Server.Load is a tool that measures and characterizes various Domino server capacity and response metrics. It allows you to select a workload and run it against a target server. The workloads (also called tests or scripts) simulate the behavior of Notes workstation-to-server operations.

Domino Server.Load offers Notes administrators the flexibility of selecting a built-in script, creating a custom script from a library of commands, or submitting commands manually. For example, you can select to run the built-in Simple Mail Routing script and simulate users on a client reading and sending mail. Or, you could create a custom script that creates and opens a Notes mail database and populates it with notes. If you want to test or execute individual commands, such as deleting notes from a database or even issuing remote server console commands, you can do this as well.

Domino Server.Load also enables you to monitor server metrics in real time via a Real Time monitor window.

You can find the Domino Server.Load performance tool in the \APPS\TOOLS\SRVLOAD subdirectory on the Notes and Domino CD-ROM. It can also be found on the Domino Performance Zone web site by clicking on Tools and Resources link at:

http://www.lotus.com/home.nsf/welcome/performance

To install Domino Server.Load, simply run the SRVLOAD.EXE file from the Notes and Domino CD-ROM and follow the on-screen instructions. Additional information can be found in the Server.Load help database (SLD10DOC.NSF) after installation.
Lotus Notes and Domino 4.6.5 Release Notes

Chapter 2 - Things you need to know

Client, Designer, Server

**Domino server floppy disk kits removed from CD-ROM**
Beginning in R4.6.4, the Domino server floppy disk kit subdirectories have been removed from the CD-ROM to allow more room for additional applications and product growth. The disk kits were formerly found in each Domino platform's subdirectory (ex. `\server\w32intel\disk_kit`) of the NetWare, OS/2, and Windows CD-ROM. Customer reports indicated the disk kits no longer have value due to easily accessible CD-ROM drives and network connections. Therefore, it was determined the space is better utilized by higher value applications such as those found in the `\apps` directory.

All of the full install kits will remain available in their existing locations on the CD-ROM (ex. `\server\w32intel\install`). The floppy disk kit for the Notes client (`\client\w32intel\disk_kit`) will also remain available on the installation CD-ROM.

Platforms and Requirements

Client, Server

**System requirements for the Notes Client and Domino Server**

### Notes 4.6.5 client - Part I

<table>
<thead>
<tr>
<th></th>
<th>AIX</th>
<th>Solaris</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certified operating system versions</strong></td>
<td>AIX 4.1.5</td>
<td>Solaris 2.5.1</td>
</tr>
<tr>
<td></td>
<td>AIX 4.2.1</td>
<td>Solaris 2.6</td>
</tr>
<tr>
<td><strong>Processors supported</strong></td>
<td>PowerPC, POWER, and POWER2</td>
<td>Intel and Sparc</td>
</tr>
<tr>
<td><strong>System Requirements</strong></td>
<td>RAM¹</td>
<td>32 MB minimum</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(64 MB or more recommended)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>32 MB minimum</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(64 MB or more recommended)</td>
</tr>
<tr>
<td><strong>Disk space²</strong></td>
<td>100 MB minimum;</td>
<td>100 MB minimum;</td>
</tr>
<tr>
<td></td>
<td>(110 MB or more</td>
<td>(110 MB or more recommended)</td>
</tr>
<tr>
<td></td>
<td>recommended)</td>
<td></td>
</tr>
<tr>
<td><strong>Monitors Supported</strong></td>
<td>Color monitor required</td>
<td>Color monitor required</td>
</tr>
<tr>
<td><strong>Protocol Support</strong></td>
<td>AppleTalk</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>SPX</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>SPX II</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>NetBIOS/NetBEUI</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>TCP/IP</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>VINES</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>X.25³</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>SNA³</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>ISDN³</td>
<td>No</td>
</tr>
</tbody>
</table>

¹ Processor types supported: PowerPC, POWER, and POWER2
² Disk space requirements: 100 MB minimum; 110 MB or more recommended
³ Note types supported: No

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# Notes 4.6.5 client - Part II

<table>
<thead>
<tr>
<th>Certified operating system versions</th>
<th>Windows 95/Windows 98</th>
<th>Windows NT Workstation 4.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processors supported</td>
<td>Intel</td>
<td>Intel</td>
</tr>
<tr>
<td>System requirements</td>
<td>RAM (^1)</td>
<td>8 MB minimum (12 MB or more recommended)</td>
</tr>
<tr>
<td></td>
<td>Disk space (^2)</td>
<td>30 MB minimum (40 MB or more recommended)</td>
</tr>
<tr>
<td>Monitors supported</td>
<td>Color monitor required</td>
<td>Color monitor required</td>
</tr>
<tr>
<td>Protocol supported</td>
<td>AppleTalk</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>SPX</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>SPX II</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>NetBIOS/NetBEUI</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>TCP/IP</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>VINES</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>X.PC</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>X.25 (^3)</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>SNA (^3)</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>ISDN (^2)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

\(^1\) RAM requirements include minimum RAM requirements for operating system as specified by the operating system vendor.

\(^2\) Disk space requirements include actual free disk space amounts for installing default Notes files. More disk space would be required if databases are replicated or copied locally.


**Note:** Operating system patches, servicepaks, and other updates are not specified in the previous table. Consult the Patch Requirements and Environment Variables sections of these Release Notes for details on recommended or required updates that should be used with each certified client or server operating system. Also note that operating system vendors frequently release updates. For the most recent information regarding updates, see the Lotus Knowledge Base online at http://www.support.lotus.com/ or contact your local Lotus Support representative.
### Domino 4.6.5 server - Part I

<table>
<thead>
<tr>
<th></th>
<th>AIX</th>
<th>NetWare</th>
<th>OS/2[^1]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certified Operating System Versions</strong></td>
<td>AIX 4.1.5</td>
<td>NetWare 4.1</td>
<td>OS/2 Warp Server 4 - Entry, Warp Server 4- Advanced, Warp Server 4 with SMP Feature</td>
</tr>
<tr>
<td><strong>Processors supported</strong></td>
<td>PowerPC, POWER, and POWER2</td>
<td>Intel</td>
<td></td>
</tr>
<tr>
<td><strong>SMP support[^2]</strong></td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>System requirements</strong></td>
<td>RAM[^3] 64 MB minimum (128 MB or more recommended)</td>
<td>48 MB minimum (64 users) 56 MB minimum (128 users) (96 MB or more recommended)</td>
<td>32 MB minimum (48 MB or more recommended)</td>
</tr>
<tr>
<td><strong>Disk space[^4]</strong></td>
<td>300 MB minimum; 500 MB or more recommended</td>
<td>300 MB minimum; 500 MB or more recommended</td>
<td>300 MB minimum; 500 MB or more recommended</td>
</tr>
<tr>
<td><strong>Disk swap space</strong></td>
<td>3 times the physical RAM recommended</td>
<td>Not used by OS</td>
<td>16 MB</td>
</tr>
<tr>
<td><strong>Monitors supported</strong></td>
<td>Color monitor required</td>
<td>Color monitor required</td>
<td>Color monitor required</td>
</tr>
<tr>
<td><strong>Protocol support</strong></td>
<td>Appletalk</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>SPX[^5]</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>No[^5]</td>
</tr>
<tr>
<td><strong>SPX II</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>No[^5]</td>
</tr>
<tr>
<td><strong>NetBIOS,/NetBEUI</strong></td>
<td>No</td>
<td>No</td>
<td>Yes[^5]</td>
</tr>
<tr>
<td><strong>TCP/IP</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>VINES</strong></td>
<td>No</td>
<td>No</td>
<td>Yes (No with Warp server 4 with SMP feature)</td>
</tr>
<tr>
<td><strong>X.PC</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>X.25[^6]</strong></td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>SNA[^7]</strong></td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>ISDN[^8]</strong></td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
### Domino 4.6.5 server - Part II

<table>
<thead>
<tr>
<th></th>
<th>HP</th>
<th>Solaris</th>
<th>Windows 95</th>
<th>Windows NT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certified Operating System Versions</strong></td>
<td>HP-UX 11.0</td>
<td>Solaris 2.5.1</td>
<td>Windows 95</td>
<td>Windows NT Server 4.0 and Windows NT Workstation 4.0</td>
</tr>
<tr>
<td><strong>Processors supported</strong></td>
<td>PA-RISC</td>
<td>Intel, Sparc</td>
<td>Intel</td>
<td>Intel, Alpha 7</td>
</tr>
<tr>
<td><strong>SMP support</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>System requirements</strong></td>
<td>64 MB minimum (128 MB or more recommended)</td>
<td>64 MB minimum (128 MB or more recommended)</td>
<td>16 MB minimum (24 MB or more recommended)</td>
<td>32 MB minimum (48 MB or more recommended)</td>
</tr>
<tr>
<td><strong>RAM</strong></td>
<td>300 MB minimum (500 MB or more recommended)</td>
<td>300 MB minimum (500 MB or more recommended)</td>
<td>150 MB minimum (300 MB or more recommended)</td>
<td>300 MB minimum (500 MB or more recommended)</td>
</tr>
<tr>
<td><strong>Disk Space</strong></td>
<td>3 times the physical RAM recommended</td>
<td>3 times the physical RAM recommended</td>
<td>16 MB</td>
<td>64 MB</td>
</tr>
<tr>
<td><strong>Monitors supported</strong></td>
<td>Color monitor required</td>
<td>Color monitor required</td>
<td>Color monitor required</td>
<td>Color monitor required</td>
</tr>
<tr>
<td><strong>Protocol support</strong></td>
<td>No</td>
<td>No</td>
<td>Yes (with Service Pack 3)</td>
<td>Yes (with Service Pack 3)</td>
</tr>
<tr>
<td>AppleTalk</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>SPX</td>
<td>Yes</td>
<td>No (SPX II only)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SPX II</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>NetBIOS/NetBEUI</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes (Not on Alpha or SMP)</td>
</tr>
<tr>
<td>TCP/IP</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>VINES</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes (Not on Alpha or SMP)</td>
</tr>
<tr>
<td>X,PC</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>X.25</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>SNA</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>ISDN</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

1 SMP (Symmetrical Multiprocessing) support is for SMP-enabled versions of listed operating systems. For details on whether a version of an operating system supports SMP, check with the operating system vendor or with your Lotus representative.

2 RAM requirements include minimum RAM requirements for operating system as specified by the operating system vendor.
3 Disk space requirements include estimated free disk space amounts for minimum functioning Notes system (that is, one or more mail databases and applications). The actual disk space needed to install the Notes files is significantly lower than the minimum and recommended values. This disk space varies by platform, but is generally on the order of 75-100 MB.

4 Domino Advanced Services clusters and partitioned server configurations do not support the IPX/SPX protocol as of Release 4.6.2. At this time, Lotus does not plan to provide IPX/SPX network support for future releases of these features.

5 Notes SPX and NetBIOS port driver (Novell NetBIOS) is not certified or supported on an OS/2 Warp server platform.


7 For server setup and administration purposes, there is an admin-only client that is included with the Domino Server on OS/2 and on Win-NT for Alpha. This client will allow the administrator to configure a new Domino server using the Domino Setup database and perform all tasks from the familiar Administration Control Panel.

8 The Domino cache directory must reside on an HPFS file system. The cache directory is specified in the Notes Server document under the HTTP Server section.

Note: Operating system patches, service packs, and other updates are not specified in the previous table. Consult the Patch Requirements and Environment Variables sections of these Release Notes for details on recommended or required updates that should be used with each certified client or server operating system. Also note that operating system vendors frequently release updates. For the most recent information regarding updates, see the Lotus Knowledge Base online at http://www.support.lotus.com or contact your local Lotus Support representative.

Server

Server resource requirements
A Novell NetWare NLM server, IBM Warp Server, or Windows NT server that you are using as a Domino server should not be used as a file or print sharing resource or for other shared services or resources like SNA or terminal gateway services. Lotus strongly recommends that you dedicate servers for Domino server processes only. This includes Internet Web services and the Advanced Partition Server service. Ensure the platform's hardware capacity and scalability meet your requirements.

Client, Designer, Server

Java support by platform
The Java certification, as Lotus/IBM has tested for it, is assurance that the Java Virtual Machines (JVM) shipped with Notes and Domino meet the full Sun compliance specs as set out by the Java Compliance Kit. Where Lotus has compiled the JVM from source code (on Win32 Intel, AIX, and Solaris), Lotus is required to run and pass the full Java Compliance Kit suite. For other JVM's shipped with Notes and Domino that are only repackaged (such as OS/2 and Win32 Alpha), such JVM's retain their original compliance status.
Below are the JVM variants and versions supported by Lotus, by platform.

<table>
<thead>
<tr>
<th>Win32 (Intel and Alpha)</th>
<th>Solaris (Sparc and Intel)</th>
<th>AIX</th>
<th>HP-UX</th>
<th>OS/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRE 1.1.6</td>
<td>JRE 1.1.6</td>
<td>JRE 1.1.6</td>
<td>JDK 1.1.2 (as part of OS)</td>
<td>JDK 1.1.6</td>
</tr>
</tbody>
</table>

**Note:** The use of Java is not supported with Domino on the NetWare platform.

---

**Client, Server**

**HP-UX 11.0 certification information**

Beginning with Release 4.6.2, the Lotus Domino Server for HP-UX 11.0 is now a certified platform. The administration client is also certified on HP-UX 11.0. (Please note that the Notes Client for HP-UX 11.0 is not supported or certified. You should use only the administration features of the Notes Client in Release 4.6.2 on HP-UX 11.0).

For deployment on previous versions of HP-UX, such as 10.10 and 10.20, the Domino Server and Notes Client Release 4.5.x continue to be available.

**IBM AIX 4.3x certification information**

Beginning with Release 4.6.2, IBM AIX 4.3 is a certified platform for the Lotus Notes Client and Domino Server. Please refer to the "IBM AIX patch requirements" in the *Things you need to know* chapter of these Release Notes for additional details about the certification.

Beginning with Release 4.6.3, IBM AIX 4.3.1 is a certified platform for the Lotus Domino Server. The administration client is also certified on AIX 4.3.1. Although not certified, the Lotus Notes client R4.6.3 (and later) is supported on AIX 4.3.1. To use AIX 4.3.1, please refer to the "IBM AIX patch requirements" in the *Things you need to know* chapter.

Although not certified, AIX 4.3.2 is a supported platform for the Lotus Domino Server, the Notes Client, and the administration client. Please refer to the "IBM AIX patch requirements" in the *Things you need to know* chapter of these Release Notes for additional details.

**Windows 98 certification information**

Beginning with Release 4.6.2a, Windows 98 is a certified platform for the Lotus Notes Client. Although not certified at this time, the Domino Server is supported on Windows 98.
**Server**

**HP-UX environment variables**

*Notes_SHARED_DPOOLSIZE*

Notes on HP servers run optimally with a maximum of 2 memory segments. More than 2 segments might cause performance degradation. Check the number of memory segments (by doing `ipcs` while Notes is running and counting the segments starting with `F8`) and if there are more than 2 allocated, change the shared memory pool size by setting the environment variable `Notes_SHARED_DPOOLSIZE` to a value greater than the default value of 12 megabytes. The value must be specified as a number of bytes. The `csh` syntax for setting this variable is shown in the following example:

```
setenv Notes_SHARED_DPOOLSIZE 30000000
```

Once a satisfactory value has been determined, it can be set in your shell's startup script (for `csh`, this would be `.login` or `.cshrc`).

**Client, Server**

**IBM AIX environment variables**

*Notes_SHARED_DPOOLSIZE*

Beginning with Notes Release 4.12, the `Notes_SHARED_DPOOLSIZE` value is automatically set to `((Total Machine RAM in bytes) / 2)/7`. The objective of this setting is to:

- Use no more than 50 percent of the Total Machine RAM for shared memory.
- Keep the total number of shared memory segments required at seven or less.

You can override this value by setting the following environment variable and issuing the command from your shell. The resulting `Notes_SHARED_DPOOLSIZE` value must be in bytes. If the number of shared memory segments used on your system exceeds 7, then increase the `Notes_SHARED_DPOOLSIZE` setting. IBM AIX allows an absolute maximum of 10 shared memory segments.

To check how many segments are being used, issue the command "ipcs" at the terminal. Shared memory segments which have keys starting with `0xF8` are those that are allocated to the Domino Server.

```
setenv Notes_SHARED_DPOOLSIZE (New value in bytes)
```

**DEBUG_ENABLE_CORE 1**

If you want the Domino Server to generate a core file in the event of a fatal error, set the following environment variable by issuing this command from the shell:

```
setenv DEBUG_ENABLE_CORE 1
```

The default behavior is to NOT generate a core file.

You can set the value of `Notes_SHARED_DPOOLSIZE` to be a number greater than calculated value. Set the environment variable by issuing the command from `csh`. The best way to set this variable is to place the given line within either the `.kshrc` (ksh) or `.cshrc` (csh) file in the home directory for the userid being used to run the Domino Server/Notes Workstation so that the variable is set each time the user logs on to the network. The resulting `Notes_SHARED_DPOOLSIZE` value must be in bytes.

```
setenv Notes_SHARED_DPOOLSIZE (New value in bytes)
```

For example:

```
setenv Notes_SHARED_DPOOLSIZE 4000000
```
**Local /etc/hosts for Name Resolution**

If you are not running either Domain Name Service (DNS) or Network Information Services (NIS) to provide name resolution for your network, and instead are using local /etc/hosts files on each machine, then you must have the environment variable **NSORDER** set for either the Domino Server or Notes Workstation to be able to resolve names using the local /etc/hosts file. This variable is set as follows:

```ksh
export NSORDER=local,bind,nis
```

```csh
setenv NSORDER local,bind,nis
```

*Note:* Previous levels of AIX required the under-bar options (`bind_r,nis_r,local_r`) for **NSORDER** for Notes to resolve hostnames. These settings are no longer required and should not be used.

This variable specifies the order in which the operating system searches for addresses for name resolution; specifying that the local (/etc/hosts) is to be searched before attempting to contact NIS for name resolution. The best way to set this variable is to place the given line within either the `.kshrc` (ksh) or `.cshrc` (csh) file in the home directory for the userid being used to run the Domino server/Notes client so that the variable is set each time the user logs on to the network.

---

**Server**

**Sun Solaris 2.6 and 2.5.1 environment variables**

**Notes_SHARED_DPOOLSIZE**

Domino and Notes no longer allocates System V shared memory for interprocess communications. Instead, an mmap()'d file is used.

By default, each mmap file that is created in the /tmp directory is 1 megabyte in size. You can set the value of **Notes_SHARED_DPOOLSIZE** to be a number greater than the default 1 megabyte (1000000). Set the environment variable by issuing the command from csh. The best way to set this variable is to place the given line within either the `.kshrc` (ksh) or `.cshrc` (csh) file in the home directory for the userid being used to run the Domino server/Notes workstation so that the variable is set each time the user logs on to the network. The resulting **Notes_SHARED_DPOOLSIZE** value must be in bytes:

```csh
setenv Notes_SHARED_DPOOLSIZE (New value in bytes)
```

For example:

```csh
setenv Notes_SHARED_DPOOLSIZE 4000000
```

**DEBUG_ENABLE_CORE 1**

If you want the Domino Server to generate a core file in the event of a fatal error, set the following environment variable by issuing this command from the shell:

```bash
setenv DEBUG_ENABLE_CORE 1
```

The default behavior does not generate a core file.
Client, Server

**Banyan Vines**
The following versions of Banyan VINES are supported in Notes 4.6:

<table>
<thead>
<tr>
<th>Operating Systems</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOS, Windows 3.1x</td>
<td>Banyan VINES Requester for DOS V5.50(20) or higher</td>
</tr>
<tr>
<td>Windows 95</td>
<td>Banyan Enterprise Client V6.00(18) or higher</td>
</tr>
<tr>
<td>Windows NT</td>
<td>Banyan Enterprise Client V5.56(20) or higher</td>
</tr>
<tr>
<td>OS/2</td>
<td>Banyan VINES OS/2 Requester V5.54(20) or higher</td>
</tr>
</tbody>
</table>

- If your Notes system is running the Banyan VINES Enterprise Client Release 4 (or 5.56(30.2)) for Windows NT and if Notes is using TCP/IP, you should edit the Windows NT registry HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\ServiceProvider\Order\ProviderOrder and remove VNS. Do this even if Notes is not configured to use VINES and even if the VINES client is not configured to use VINES TCP/IP support. The Banyan VINES Enterprise Client Release Notes contain information on which registry variable to edit. To obtain these release notes, see the Banyan Web site: http://www.banyan.com/platforms/ntrelease.html. The information you need is in the section titled "Installing IIS Fails if the Windows NT Client is Already Installed". You also need this workaround to co-exist with other TCP servers, such as Lotus Domino.

- Two files are required in addition to the Banyan OS/2 requester. Copy the files VNSAPI32.DLL and VNSAPI16.DLL to the location where the Banyan VINES requester is installed on the system. The files are available to Banyan customers on Banyan's BOA BBS system at 508-836-1834 or 508-836-1822. The file name is BATOS2.ZIP.

Client, Server

**TCP/IP**
This table summarizes the 32-bit TCP/IP stacks that are:

- Both Certified and Supported
- Not Certified, but Supported
- Not Certified and Not Supported

Both the Domino server and Notes workstation were tested on the following stacks:

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Vendor Name</th>
<th>Both Certified &amp; Supported</th>
<th>Not Certified, but Supported</th>
<th>Not Certified &amp; Not Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reflection Suite for TCP v6.5</td>
<td>Walker, Richer and Quinn (WRQ)</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Windows 95 / Windows NT</td>
<td>Microsoft Corporation</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cisco TCP/IP Suite 100 version 2.0</td>
<td>Cisco Systems</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replacement for MultiNet from TGV</td>
<td>SunSoft</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IntraNetWare</td>
<td>Novell</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Client, Server

**IPX/SPX (PC platforms)**

**Required Software Base Levels for Novell NetWare IPX/SPX**

<table>
<thead>
<tr>
<th>Operating Systems</th>
<th>Support</th>
<th>Novell Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows 95</td>
<td>IntranetWare Client for Windows 95 V2.12</td>
<td>95ENU_N3.EXE</td>
</tr>
<tr>
<td>Windows NT 4.0</td>
<td>IntranetWare Client 4.1 for Windows NT</td>
<td>NTENU41N.EXE</td>
</tr>
</tbody>
</table>

- The Windows file names above that end with the letter "N" (for example, NTENU41N.EXE) indicate the network installation version. The diskette version of the same patch ends with the letter "D" (for example, NTENU41D.EXE). Both the network version and the diskette version of these patches are supported.
- For Microsoft Windows NT and Windows 95, OnNet32 from FTP Software replaces the Microsoft WINSOCK.DLL. This version of the WINSOCK.DLL does not support the SPX Protocol and can cause problems. As a workaround, disable the SPX Port Driver or use Microsoft's TCP/IP stack on Windows 95 or Windows NT. Any protocol stack that replaces the WINSOCK.DLL and does not support the SPX protocol can cause this problem. You will receive the error Non-standard Winsock extension. Function GetAddressByName () when running OnNet32's WINSOCK.DLL.
- If using Token-Ring or FDDI networks please review Novell NetWare IPX/SPX protocol stack for Windows 95 and Windows NT 3.51/4.0 with Token-Ring topology note in the Troubleshooting Networking Issues section.

Client, Server

**IPX/SPX (UNIX platforms)**

**IBM AIX**

SPX support for AIX V4 is provided by the fileset ipx.rte, which is shipped on the AIX V4 server CD, or by the SPX support in AIX Connections. The filesets for SPX support must be updated to the following levels for Notes 4.6.2:

**AIX V4.1.4**

<table>
<thead>
<tr>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Required by Developers</th>
<th>Required by Customers (runtime patch)</th>
<th>SPX</th>
</tr>
</thead>
<tbody>
<tr>
<td>U445764</td>
<td>ipx.rte - 4.1.4.11</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>IX61435/U447192</td>
<td>connect.protocols - 4.1.4.7 (for AIX Connections)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>IX60634/U445530</td>
<td>connect.server.nwserve - 4.1.4.8 (for AIX Connections)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>IX56814/U442705</td>
<td>connect.server.com - 4.1.4.2 (for AIX Connections)</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
AIX V4.1.5

The following patches are needed to run SPX on AIX 4.1.5.

<table>
<thead>
<tr>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Required by Developers</th>
<th>Required by Customers (runtime patch)</th>
<th>SPX</th>
</tr>
</thead>
<tbody>
<tr>
<td>U442271</td>
<td>ipx.rte</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>4.1.5.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U447411</td>
<td>connect.server.com</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>4.1.5.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U447415</td>
<td>connect.protocols</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>4.1.5.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U447397</td>
<td>connect.server.nwserve</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>4.1.5.2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

AIX connections are supported on AIX 4.1.5 and run properly when you enter the following at the command line:

```
tntransport -M -n tnipx-a rip_ipg=10-a sap_ipg=10
```  

AIX V4.2.1

There are no IPX/SPX related patches required for AIX V4.2.1.

Sun Solaris 2.5.1 for the SPARC and the Intel edition

Apply the following patches to connect/NW 2.0.1:

<table>
<thead>
<tr>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Required by Developers</th>
<th>Required by Customers (runtime patch)</th>
<th>SPX</th>
</tr>
</thead>
<tbody>
<tr>
<td>104017-01</td>
<td>patch for connect/NW 2.0.1</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

For the Solaris Intel Edition, apply the latest driver update from Sun Microsystems, Inc.

Client, Server

**Support for Remote LAN methods**

Notes Release 4.6 supports two methods of integrated remote LAN access: Microsoft Remote Access Service (RAS) and Apple Remote Access (ARA).

- RAS is supported on Windows NT and Windows 95 running TCP/IP and NetBIOS/NetBEUI. RAS does not support Large SPX packets. Microsoft is aware of this problem. Lotus recommends that you do not use RAS with SPX at this time.
- ARA is supported on the Macintosh client.
Server

**Domino advanced services**

Domino Advanced Services supports only TCP/IP environments for cluster and partitioned server configurations. IPX/SPX is not supported, and at this time there is no planned IPX/SPX support in future releases for these features. For customers who run multiple protocols on their systems, the following limitations might apply:

- Notes clients can access clustered Domino servers from any protocol the server supports. However, the advanced automatic failover and workload balancing features are only available for TCP/IP clients connected to Domino servers.
- Servers with clustered databases must replicate across TCP/IP networks.
- Partitioned Domino servers that share a single NIC card can only service TCP/IP connected clients. A partitioned server with its own NIC card can still service multi-protocol clients.
- If your Domino servers run both TCP/IP and IPX/SPX, include the following two variables in the NOTES.INI file of all servers that belong to a cluster. These settings force all traffic for the cluster through TCP/IP.

```plaintext
SERVER_CLUSTER_PROBE_PORT=TCP/IP
SERVER_CLUSTER_DEFAULT_PORT=TCP/IP
```

For more information, see the help documentation entitled *Extending the Domino System*.

Client, Server

**Using NetWare Directory Services (NDS)**

You can use NetWare Directory Services on the following platforms:

- NetWare 4.1
- OS/2 using the Novell NetWare Client for OS/2
- Windows NT using the Novell NetWare Client for Windows NT
- Windows 95 using Novell Client32

Server

**IBM OS/2 (32-bit) patch requirements**

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS/2 Warp Server 4</td>
<td>Fixpak 26 (XR_W026)</td>
<td>Cumulative set of fixes for WARP Server Entry, Advanced, and SMP</td>
<td>Required to run Lotus Notes Release 4.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plus the following additional Fixpaks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IP08260 for Lan Services</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>UN00959 TCP/IP update</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WR08210 MPTN Update</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The Domino server 4.6 on OS/2 Warp - Entry, Advanced, and SMP versions - was certification tested using OS/2 Fixpak No. 26 from IBM, along with the additional fixpaks identified above. Lotus realizes that there are later fixpaks that may become publicly available after certification testing completes and acknowledges that these more recent fixpak updates fix additional problems. You may wish to apply these newer fixpaks.

You can download Fixpak 26 or higher, plus the additional fixpaks referenced above, from the Internet address http://ps.software.ibm.com. You can also obtain these fixpaks from your IBM representative or by calling 1-800-992-4777 and choosing the "Order Corrective Service Diskettes" option on the phone menu. Follow the installation instructions that come with the fixpak. SPR # CCWG3KENLU

Note: The first OS/2 Fixpak for the Warp Server - SMP version is Fixpak 29.

Client, Server

**Microsoft Windows 95 patch requirements**

Domino and Notes Release 4.6 on Windows 95 was certification tested using the Service Pack levels identified below. Lotus realizes that there are later service packs that may become publicly available after certification testing, and acknowledges that these more recent updates may fix additional problems. You may wish to apply these newer service packs as they become available.

Obtain and install the following patches from Microsoft Corporation or download them from Microsoft's Service Packs Web site: [http://www.microsoft.com/msdownload/](http://www.microsoft.com/msdownload/)

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows 95</td>
<td>Service pack 1 and Service pack 1 update</td>
<td>Cumulative set of fixes for Windows 95</td>
<td>Required fixes to run Lotus Notes Release 4 (or later)</td>
</tr>
</tbody>
</table>

Client, Server

**Microsoft Windows NT Workstation and Server 4.0 patch requirements**

Domino and Notes Release 4.6 on Windows NT was certification tested using the Service Pack levels identified below. Lotus realizes that there are later service packs that may become publicly available after certification testing, and acknowledges that these more recent updates may fix additional problems. You may wish to apply these newer service packs as they become available.

Obtain and install the following patches from Microsoft Corporation or download them from Microsoft's Service Packs Web site: [http://www.microsoft.com/msdownload/](http://www.microsoft.com/msdownload/)

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows NT Workstation 4.0</td>
<td>Service pack 3</td>
<td>Cumulative set of fixes for Windows NT 4.0</td>
<td>Required fixes to run Lotus Notes Release 4.6x.</td>
</tr>
<tr>
<td>Windows NT Server 4.0</td>
<td>Service pack 3</td>
<td>Cumulative set of fixes for Windows NT 4.0</td>
<td>Required to run Lotus Notes Release 4.6x.</td>
</tr>
</tbody>
</table>
Sun SPARC Solaris 2.5.1 patch requirements
Domino and Notes 4.6 was initially certified to run on Solaris 2.5.1 SPARC. Obtain and install the following recommended patches from Sun Microsystems, Inc. This list is periodically updated by Sun, but at the time Domino/Notes 4.6.1 was released the list of Sun recommended patches for Solaris 2.5.1 consisted of:

101242-11 or later - Shared library patch for C++ (libC.so.5) 4.0.1, 4.1, 4.2

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>103461-18</td>
<td>103663-08</td>
<td>103900-01</td>
<td>104331-04</td>
<td>104735-02</td>
<td>105004-06</td>
</tr>
<tr>
<td>103558-10</td>
<td>103680-01</td>
<td>103901-08</td>
<td>104334-01</td>
<td>104736-03</td>
<td>105050-01</td>
</tr>
<tr>
<td>103566-23</td>
<td>103686-02</td>
<td>103934-05</td>
<td>104338-02</td>
<td>104776-01</td>
<td>105251-01</td>
</tr>
<tr>
<td>103582-15</td>
<td>103690-05</td>
<td>103959-05</td>
<td>104433-04</td>
<td>104795-02</td>
<td></td>
</tr>
<tr>
<td>103594-10</td>
<td>103696-02</td>
<td>104010-01</td>
<td>104516-03</td>
<td>104893-01</td>
<td></td>
</tr>
<tr>
<td>103600-18</td>
<td>103743-01</td>
<td>104212-06</td>
<td>104613-01</td>
<td>104956-04</td>
<td></td>
</tr>
<tr>
<td>103612-33</td>
<td>103817-01</td>
<td>104246-05</td>
<td>104654-03</td>
<td>104958-01</td>
<td></td>
</tr>
<tr>
<td>103630-09</td>
<td>103866-03</td>
<td>104266-01</td>
<td>104692-01</td>
<td>104960-01</td>
<td></td>
</tr>
<tr>
<td>103640-12</td>
<td>103879-04</td>
<td>104317-01</td>
<td>104708-06</td>
<td>104968-01</td>
<td></td>
</tr>
</tbody>
</table>

Sun Solaris 2.5.1 for SPARC is certified using Common Desktop Environment for UNIX and Motif X11 R5.

Hewlett Packard HP-UX patch requirements
Domino Release 4.6.3 is supported on HP-UX 11.0. Obtain and install the following recommended patches from Hewlett Packard:

XSWGR1100 B.11.00.39
(HP-UX Extension Pack, June 1998)

PHNE_15612 1.0
(Cumulative streams patch)
**IBM AIX patch requirements**

Domino and Notes Release 4.6 is supported on AIX V4.1.5, AIX V4.2.1, AIX V4.3, AIX V4.3.1, and AIX V4.3.2. IBM recommends that customers move to the later releases of AIX to take advantage of new hardware and enhancements. The level of your AIX system can be determined by entering:

```
oslevel
```

An example of the output of this command would be:

```
4.1.5.0 or 4.2.1.0
```

**AIX V4.1.5**

Some of the base AIX V4.1 filesets must be updated to the following levels on AIX V4.1.5 to run Notes Release 4.6 for AIX. The PTF (U4xxxxx) numbers are provided as a reference when ordering these updates from your IBM Support Center. The updates can also be retrieved from the AIX Fixdist server at http://service.software.ibm.com/www/support/aix:

<table>
<thead>
<tr>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Required by developers</th>
<th>Required by Customers (runtime patch)</th>
<th>SPX</th>
</tr>
</thead>
<tbody>
<tr>
<td>U446706</td>
<td>X11.Dt.lib 4.1.5.2</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U446812</td>
<td>bos.net.nfs.client 4.1.5.1</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U446810</td>
<td>bos.rte.lvm 4.1.5.3</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U446245</td>
<td>bos.adt.prof 4.1.5.1</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U446855</td>
<td>bos.rte.man 4.1.5.2</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U446244</td>
<td>bos.rte.libc 4.1.5.1</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U445109</td>
<td>devices.isa_sio.sa.rte 4.1.5.1</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U446761</td>
<td>bos.rtetty 4.1.5.2</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U446701</td>
<td>devices.pci.00100100.rte 4.1.5.1</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U445116</td>
<td>devices.pci.00100f00.rte 4.1.5.1</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U445081</td>
<td>devices.pci.14101800.rte 4.1.5.1</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U446247</td>
<td>devices.pci.14105400.X11 4.1.5.1</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>4.1.5.2</td>
<td>4.1.5.3</td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>-----------------------------------------------------------------------------</td>
<td>---------</td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>U446708</td>
<td>devices.pci.14105400.rte</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U445070</td>
<td>devices.pci.14105e00.X11</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U446745</td>
<td>devices.pci.14105e00.rte</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U445032</td>
<td>devices.pcmcia.serial.com</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U449238</td>
<td>xIC.rte</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For Notes 4.1x and 4.5x use version 3.1.3.0 or 3.1.4.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>For Notes 4.6 use version 3.1.4.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U446817</td>
<td>If installed, the following fileset needs to be updated to indicated level:</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>bos.mp - 4.1.5.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U446869</td>
<td>If installed, the following fileset needs to be updated to indicated level:</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>bos.up - 4.1.5.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U442271</td>
<td>ipx.rte</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.1.5.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U447411</td>
<td>connect.server.com</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.1.5.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U447415</td>
<td>connect.protocols</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.1.5.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U447397</td>
<td>connect.server.nwserve</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.1.5.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>APAR IX72217</td>
<td>Required if using Yellow Pages for name resolution.</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>bos.rte.libc</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

AIX Connections will be supported on AIX 4.1.5 and works only if you enter the following at the command line:

tntransport -M -n tnipx-a rip_ipg=10-a sap_ipg=10
**AIX V4.2.1**
Some of the base AIX V4.1 filesets must be updated to the following levels on AIX V4.2.1 to run Notes R4.6 for AIX. The PTF (U4xxxxx) numbers are provided as a reference when ordering these updates from your IBM Support Center. The updates can also be retrieved from the AIX Fixdist server at http://service.software.ibm.com/www/support/aix:

<table>
<thead>
<tr>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Required by developers</th>
<th>Required by Customers (runtime patch)</th>
<th>SPX</th>
</tr>
</thead>
<tbody>
<tr>
<td>U449238</td>
<td>xlC.rte</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For Notes 4.1x and 4.5x use version 3.1.3.0 or 3.1.4.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For Notes 4.6 use version 3.1.4.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U448806</td>
<td>If installed, the following fileset needs to be updated to indicated level:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>bos.mp - 4.2.1.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U448841</td>
<td>If installed, the following fileset needs to be updated to indicated level:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>bos.up - 4.2.1.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U454693</td>
<td>Needed to fix an NIS bug</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>bos.rte.control - 4.2.1.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U454696</td>
<td>Needed to fix an NIS bug</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>bos.rte.libs - 4.2.1.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U454662</td>
<td>Needed to fix an NIS bug</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>bos.rte.libc - 4.2.1.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U454703</td>
<td>Needed to fix an NIS bug</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>bos.adt.prof - 4.2.1.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(if bos.adt.prof on system)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U454713</td>
<td>Needed to fix an NIS bug</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>bos.rte.shell - 4.2.1.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>APAR IX72217</td>
<td>Required if using Yellow Pages for name resolution.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>bos.rte.libc.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
AIX V4.3
Some of the base AIX V4.3 filesets must be updated to the following levels to run Notes Release 4.6.2 (and later) for AIX. The PTF (U4xxxxx) numbers are provided as a reference when ordering these updates from your IBM Support Center. The updates can also be retrieved from the AIX Fixdist server at http://service.software.ibm.com/www/support/aix:

<table>
<thead>
<tr>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Required by developers</th>
<th>Required by Customers (runtime patch)</th>
<th>SPX</th>
</tr>
</thead>
<tbody>
<tr>
<td>U453900 (APAR IX73966)</td>
<td>Needed to fix an NIS bug bos.adt.prof 4.3.0.4</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U453844 (APAR IX73966)</td>
<td>Needed to fix an NIS bug bos.64bit 4.3.0.3</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>U453892 (APAR IX73966)</td>
<td>Needed to fix an NIS bug bos.rte.libc 4.3.0.4</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>

AIX V4.3.1
Some of the base AIX V4.3.1 filesets must be updated to the following levels to run Notes Release 4.6.2 (or later) for AIX. The PTF (U4xxxxx) numbers are provided as a reference when ordering these updates from your IBM Support Center. The updates can also be retrieved from the AIX Fixdist server at http://service.software.ibm.com/www/support/aix:

<table>
<thead>
<tr>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Required by developers</th>
<th>Required by Customers (runtime patch)</th>
<th>SPX</th>
</tr>
</thead>
<tbody>
<tr>
<td>U457132</td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>

AIX V4.3.2
Although not certified, AIX 4.3.2 is a supported platform for the R4.6x Domino Server. Individual operating system patches and service packs are not supported; however, Lotus realizes that there are later patches that may become publicly available after testing, and acknowledges that these more recent updates may fix additional problems. You may wish to apply these newer patches as they become available. You can obtain and install the following patches from IBM or download them from IBM's Web site: http://www.ibm.com:

<table>
<thead>
<tr>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Required by developers</th>
<th>Required by Customers (runtime patch)</th>
<th>SPX</th>
</tr>
</thead>
<tbody>
<tr>
<td>IX85874</td>
<td>xlC.rte 3.6.4.1</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>
AIX V4.1.4
The patch information for AIX 4.1.4 is included for completeness.

Some of the base AIX V4.1 filesets must be updated to the following levels on AIX V4.1.4 to run Notes R4.6 for AIX. The PTF (U4xxxxx) numbers are provided as a reference when ordering these updates from your IBM Support Center. The updates can also be retrieved from the AIX Fixdist server at http://service.software.ibm.com/www/support/aix:

<table>
<thead>
<tr>
<th>Patch Number</th>
<th>Synopsis</th>
<th>Required by developers</th>
<th>Required by Customers (runtime patch)</th>
<th>SPX</th>
</tr>
</thead>
<tbody>
<tr>
<td>IX55384/U441186</td>
<td>bos.adt.include - 4.1.4.4</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>IX62509</td>
<td>bos.adt.prof - 4.1.4.21</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>IX58507/U444415</td>
<td>bos.net.tcp.client - 4.1.4.16</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>IX62509</td>
<td>bos.rte.libc - 4.1.4.19</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>IX62509</td>
<td>bos.rte.lib - 4.1.4.14</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>IX55384/U441121</td>
<td>bos.rte.streams - 4.1.4.2</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>IX59142/U444061</td>
<td>bos.rte.tty - 4.1.4.13</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>IX55837/U441583</td>
<td>bos.sysmgt.serv_aid - 4.1.4.5</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>IX60082/U444377</td>
<td>If installed, the following fileset needs to be updated to indicated level: bos.up - 4.1.4.17</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>IX60082/U444115</td>
<td>If installed, the following fileset needs to be updated to indicated level: bos.mp - 4.1.4.17</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>IX55293/U440895</td>
<td>If installed, the following fileset needs to be updated to indicated level: bos.rte.security - 4.1.4.2</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>IX57406/U443030</td>
<td>If installed, the following fileset needs to be updated to indicated level: devices.mca.8ef4 - 4.1.4.4</td>
<td>x</td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>
If installed, the following fileset needs to be updated to indicated level:

- `devices.mca.ffe1` - 4.1.4.8

For Notes 4.1x and 4.5x use version 3.1.3.0 or 3.1.4.0
For Notes 4.6 use version 3.1.4.4

<table>
<thead>
<tr>
<th>Fileset</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>U449238</code></td>
<td><code>xIC.rte</code></td>
</tr>
<tr>
<td><code>IX60679/U445544</code></td>
<td><code>ipx.rte</code> - 4.1.4.10</td>
</tr>
<tr>
<td><code>IX61435/U447192</code></td>
<td><code>connect.protocols</code> - 4.1.4.7 (for AIX Connections)</td>
</tr>
<tr>
<td><code>IX60634/U445530</code></td>
<td><code>connect.server.nwserve</code> - 4.1.4.8 (for AIX Connections)</td>
</tr>
<tr>
<td><code>IX56814/U442705</code></td>
<td><code>connect.server.com</code> - 4.1.4.2 (for AIX Connections)</td>
</tr>
</tbody>
</table>

**Server**

**NetWare 4.1 server patch requirements**

- **STRTL5.EXE or STRTL6.EXE**
  Required for Domino/Notes NLM server process.

- **LIBUPD.EXE**
  Required for NetWare TCP/IP services with Domino/Notes NLM server.

- **DS410A.EXE**
  Required for NDS services all 4.0x and 4.1 servers in the network.

- **NAM41B.EXE**
  Optional, needed if server files are moved or copied by OS/2 system on NetWare server mapped drives.

These patches and others are available from Novell's Web site at http://www.novell.com.

**Note:** NetWare 4.1 is certified for use with Domino 4.6. NetWare 3.12 and 4.11 are not certified for Notes 4.6; however, they are still supported. Support for Intranetware 4.11 began with Domino Release 4.6.2a.
Sun Solaris Intel edition 2.5.1 patch requirements

Domino and Notes 4.6 is supported on Solaris 2.5.1 Intel Edition. Obtain and install the following recommended patches from Sun Microsystems, Inc. This list is periodically updated by Sun, but at the time Domino/Notes 4.6.1 was released the list of Sun recommended patches consisted of:

```
103559-07  103664-08  103881-04  104335-01  104737-03
103581-15  103681-01  104011-01  104434-04  104777-01
103595-10  103687-02  104195-04  104517-03  104894-01
103601-13  103691-05  104241-03  104614-01  104969-01
103613-32  103697-02  104267-01  104641-06  105051-01
103631-09  103744-01  104318-01  104655-01  105105-01
103641-12  103818-01  104332-04  104693-01  105109-01
```

Sun Solaris 2.5.1 Intel Edition is certified using Common Desktop Environment for UNIX and Motif X11 R4 and R5.

Sun Solaris Intel Edition 2.6

There were no known patches required for Solaris Intel Edition 2.6 at the time Domino/Notes Release 4.6.1 was shipped.

Server

NetWare SPX support files

This is a clarification based on the Install Servers Guide, Chapter 4, page 75 for Release 4.6 - "About installing Novell NetWare support files". If you are using SPX on a NetWare 3.12 server, you also need to install the most recent STRTL5.EXE or STRTL6.EXE support file from Novell to use Notes successfully.

Server

IBM AIX - recommended kernel configuration

To simplify the setup of your system, the following kernel parameter settings should be included in the NOTES.INI file.

- Maximum number of processes allowed per user [128]
- Minimum paging space should be 2 x (two times) real memory for systems with less than 512 megabytes.
- Maximum number of Licensed Users [2]

(Please use Smit to set the above values.)

Server

HP-UX recommended kernel configuration

A Notes server requires sufficient kernel resources to handle the load placed on it. This release note contains recommendations for setting kernel parameters on your HP-UX Notes server.

It is strongly recommended that you use the HP-UX system administration utility `smit` to configure your Notes server machine as an OLTP/Database Server machine. To do this:

1. Bring up `smit`.
2. Select and open Kernel Configuration.
3. Select and run Configurable Parameters.

4. Select Apply Tuned Parameter Set from the Actions menu.

5. Select General OLTP/Database Server System and click OK.


After you have applied the tuned parameter set, or if you choose not to apply the tuned parameter set, verify that the minimum parameters values listed below have been set:

- **NSTREVENT**: 50
- **NSTRPUSH**: 16
- **NSTRSCHED**: 0
- **STRMSGSZ**: 65535
- **max_thread_proc**: 2000
- **maxfiles**: 2048
- **maxfiles_lim**: 2048
- **maxswapchunks**: 4096
- **maxuprc**: ((nproc*9)/10)
- **maxusers**: 1024
- **ncallout**: (16+nproc)
- **nfile**: (15*nproc+2048)
- **nflocks**: (nfile)
- **nproc**: (maxusers*3)+64
- **nstrpty**: 60
- **semmns**: (semmni*2)
- **semume**: 64
- **shmmmax**: 0X60000000
- **swapmem_on**: 0

Heavy client loads, or Notes applications that consume a great deal of kernel resources, may require that parameters be set even higher than the recommended values. Some guidelines for setting particular parameters are listed below. Note that HP supplies a real time monitoring tool called Glance Plus. Glance Plus is on the HP Applications CD and is useful for monitoring the status of these values while the application is running. If other applications are also being used concurrently on the system, please use caution when modifying these values.
max_thread_proc: This is the maximum number of threads that each process can create. As a general rule we recommend that this number be twice the number of clients the system is intended to host, at minimum.

nfile: This is the total number of files that can be opened system-wide. As a general rule we recommend that this number be (5 times the number of active domino users + 2048) for the system.

nflocks: This is the total number of file locks for open files system-wide. As a general rule we recommend that this number be about the same as nfile (explained directly above).

nproc: This is the total number of processes system-wide. Starting in 4.6.2 for HP-UX, Domino uses threads, so nproc can be lower than the formula calculated value. A typical number for nproc is about 1024.

Client, Server

**Sun Solaris recommended kernel configuration**

Domino and Notes no longer allocate System V shared memory for interprocess communications in Release 4.6. Instead, an mmap()'d file is used. Therefore, it is no longer necessary to modify the /etc/system file to add shared memory size specifications. If they exist, they can be deleted from your /etc/system the parameters with the "strike-throughs" shown below. The system must be rebooted if the /etc/system file is modified.

**Kernel Configurations for Solaris servers**

The parameters in /etc/system should be:

```
set max_nprocs=4096
set strctlsz=4096
```

**Note:** The shared memory size specifications are still required for 4.5.x and 4.1.x versions of Domino and Notes.

The spxmaxpacket parameter for the IPX/SPX stack should be set to 1500.

Refer to your IPX/SPX documentation for specific instructions.

Server

**SMTP/MIME MTA system requirements (PC and UNIX)**

Below is a table of operating system platforms, and the version of each platform that is certified to work with the SMTP/MIME MTA (Message Transfer Agent) feature set. This table was last updated for the 4.6.5 release of Domino.

<table>
<thead>
<tr>
<th>PC Platforms</th>
<th>Certified Platforms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows NT (Intel &amp; Alpha)</td>
<td>4.0</td>
</tr>
<tr>
<td>OS/2 Warp 3.0, Warp Connect, Warp 4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>(Entry, Advanced and SMP)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UNIX Platforms</th>
<th>Certified Platforms</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIX</td>
<td>4.1.5, 4.2.1, 4.3, 4.3.1</td>
</tr>
<tr>
<td>Solaris SPARC</td>
<td>2.5.1, 2.6</td>
</tr>
<tr>
<td>Solaris Intel</td>
<td>2.5.1, 2.6</td>
</tr>
<tr>
<td>HP-UX</td>
<td>11.0</td>
</tr>
</tbody>
</table>
Running a Domino partitioned server as a Windows NT Service

Lotus Domino Release 4.6.2 adds support for running a Domino partitioned server as a Microsoft Windows NT service. The installation and setup programs for Domino have not changed and do not allow you to create this configuration -- running a Domino partitioned server as an NT service is a manual configuration process. You must enable and configure this option from a DOS command line in the server's Notes program directory.

**Note:** During the standard Domino Install process, install the NT service feature only on the first partitioned server. This installs Domino as an NT service with the default name "Lotus Domino Server" and copies NTSVINST.EXE to the Notes program directory.

To set up a Domino partitioned server as an NT service, do the following:

1. Click the Start button on the Windows taskbar.
2. Choose Programs - MS-DOS Prompt.
3. Change to the Notes program directory for the server.
4. Type `ntsvinst -d` and press ENTER to delete the default Lotus Domino Server service entry.
5. Type `ntsvinst` and press ENTER. Do not specify any parameters for `ntsvinst`. MS-DOS displays the following help screen for the `ntsvinst` command. Follow these parameters when installing a Domino partitioned server as an NT service.

**Usage:**
```
ntsvinst  option  title  ini  partition
```

- **option:**
  - `-c` Create Notes Service
  - `-d` Delete Notes Service

- **title:**
  - `-t""` Title for Notes Service
  - Example: `-t"Domino Partition 1"

- **ini:**
  - `-i` NOTES.INI path
  - Example: `-i c:\notes\data\notes.ini`

- **partition:**
  - `-p` Partition #
  - Example: `-p1`

6. For each partitioned server, type `ntsvinst -c -t` with the appropriate parameters as defined above; for example,

```
ntsvinst -c -t"Domino Partition 1" -ic:\notes\data\notes.ini -p1
```

and press ENTER.

To uninstall a Domino partitioned server as an NT service, do the following:

1. Type `ntsvinst -d` with the parameters for each server as specified above; for example,

```
ntsvinst -d -t"Domino Partition 1"
```
Security

Important Changes in Web Authentication

Domino HTTP Authentication Rules (new with 4.6)

When Domino authenticates a user from the Web using "Basic" authentication (via the Name and Password dialog box), the Domino server searches the Public Name and Address Book using the $Users hidden view to find any names that match what the user entered. For example, if a user named John Smith enters just "smith" and the proper password in the Name and Password dialog box, the $Users hidden view is searched for any matches to "smith." If several matches are found, the password is then checked and the "smith" Person document containing the matching password is then authenticated. For ease of use, the $Users view will match on several variations of the name, so users could enter just their "first name" or "last name", "short name", "common name", and full "hierarchical name" in the Name and Password dialog box.

When Domino finds the Person document that matches what the user entered, the server authenticates the user using the names in the User name field of their Person document. Using "John Smith" as an example, if his Person document's User name field contains the following two entries, he will be authenticated with both names:

- John Smith/US/Acme
- John Smith

In all cases, if the user has a "hierarchical" name (John Smith/US/Acme) this is the recommended name that should be used in database ACLs and Groups for authorization. This provides better security than using the common name alone. The common name (John Smith) can be used in Groups and ACLs as long as both the server and the user are in the same organization (/ORG).

For example, if John Smith/US/Acme is accessing a database on a server called "ServerX/Acme", because they are both in the same /Acme organization, just the common name "John Smith" could be used in the ACL. However, if he is accessing a database on a server called "ServerZ/IBM", his full hierarchical name must be used in the database ACLs and any Groups on that server for him to get correct level of access.

NOTE: With this new method of HTTP authentication (starting in Domino 4.6), short names should NOT be used in database ACLs or Groups. Either the full hierarchical name or the common name can be used.

Authentication with Cascaded NABs

With Domino 4.6, there are two ways of using multiple NABs to authenticate users via HTTP.

1. Cascaded NABs via NOTES.INI: With Release 4.6.2, only the primary NAB will be used for HTTP authentication. For example, if you had the line "names= names, names2, names3" in the NOTES.INI, only users in the first NAB (NAMES.NSF) would be authenticated.

2. Master Address Book: With Release 4.6, the Master Address Book (MAB) could be used to configure several NABs. All of these NABs would be used for HTTP authentication. However, with Domino 4.6 you are able to mark the NABs as "trusted" or "untrusted." Only the SSL X.509 Client certificates honored this "untrusted" field. If the NAB was flagged as "untrusted" that NAB would NOT be used for X.509 client authentication. Now with Domino 4.6.2, basic (name and password) authentication will also honor the "untrusted" field, and thus will not use any NABs marked as "untrusted" for authentication.
Three NOTES.INI variables that modify HTTP authentication:

"WebNameAuthentic=1"
When this NOTES.INI variable is set, HTTP authentication goes back to the Domino Release 4.5 method of HTTP authentication (A.K.A. the "you are who you log in as" method). This works as follows: if a user enters "jsmith" and their correct password in the Name & Password dialog box, Domino searches through the $Users view of the NAB. If it finds a match and the password matches, then the user is authenticated as "jsmith". This user would need to be entered as "jsmith" in any Groups and Database ACLs in order to gain the correct access to each database. Whatever name the user enters into the Name and Password dialog box is the name that would need to be used in Groups and Database ACLs.

"NABWebLookupView = viewname"
With this NOTES.INI variable, the server is directed to search the NAB for the name the user entered into the Name and Password dialog box using the view that is specified in this NOTES.INI variable. This "user" created view is used instead of the $Users view. This method allows administrators to design a new view in the public NAB that is similar to the $Users view, however, in the formula for the first column (Name) the formula that view may not have first names, last names, shortnames etc., so users would be forced to enter their full names to log in.

"NoAmbiguousWebNames=1"
This variable forces Domino to match Web user names to only one Person document in the NAB. Setting this flag will result in an authentication failure (like "Error 401 Authentication Exception") any time more than one Person document matches a Web user name. Users will have to "login" with a unique user name to authenticate.

For example, If a user enters "jdoe" in the Name and Password dialog box, Domino searches the $User view of the NAB for any matches. Let's say that it finds two matches (John Doe/Lotus and John Doe/Acme). In this case the user would receive an Error 401 Authentication Exception - because the name entered (jdoe) is ambiguous. At this point the user would need to enter his full hierarchical name (John Doe/Acme) in the Name and Password dialog box, so that he could be authenticated correctly.

Please note that if a customer site is using "NoAmbiguousWebNames=1", and if the site has users with the same name (either in the same NAB or in different NABs if a Master Address Book is being used), this could cause problems with authentication. For example, if you have two John Smiths in two different NABs, if they enter "John Smith" in the Name and password dialog box, neither will be authenticated because this name is ambiguous. The Administrator would need to edit the Person document and change their User name fields so that each has a different middle initial (John M. Smith and John S. Smith). Alternately the administrator could change the shortname field so that each is unique (jmsmith and jssmith). The users can then use the resulting "unique" name when prompted to authenticate via the Name and Password dialog box.

Client, Server

Adding client certificates to cascaded public address books
The process of automatically adding client certificates into cascaded public address books does not work for this release, but will be addressed in a subsequent release.

Server

File name for the Certificate Authority database
You should name the Certificate Authority database certca.nsf. Although you can use a different name for the database, you cannot use the command File - Tools - Server Administration, System Databases - Open Certificate Authority unless you name the database certca.nsf.
Server

**Global Server ID for domestic/international licenses (128-bit encryption)**
The Global Server certificate for the Domino Server enabling 128-bit encryption is available on Verisign's Web site.

For both domestic and international licenses using this certificate, RC4_128_MD5, is the cipher that negotiates for all supported browsers.

*Note:* RC4_40_MD5 must also be enabled and will be unless the sslcipherspec notes.ini variable is configured for specific ciphers.

Server

**Keywitness client certificate**
Currently, the Domino server does not accept a Keywitness client certificate.

Server

**Microsoft Internet Explorer**
If your Internet browser setting in your Location document is set to Notes with Internet Explorer or Microsoft Internet Explorer, you must ensure the Update cache setting in the Advanced section of the Location document is set to *every time*.

This setting overrides the setting in Microsoft Internet Explorer 3.02, in the Advanced section under options, Temporary Internet files settings, which should always be set to *Every visit to the page*.

Server

**Name and Password and Microsoft IE 3.02 on Windows 95**
1. On Windows 95, open a document in a database using Internet Explorer (3.02).
2. Enter your name and password when prompted to authenticate.
3. Exit Internet Explorer.
4. Repeat step 1.

When the dialog for authentication appears, the previous name and password are already there. You need to select "Enter" to gain access.

*Note:* De-selecting the checkbox to "save password in list" has no obvious effect for the next authentication. The only workaround is to authenticate with a false name and password before exiting Internet Explorer.

This is a problem in Microsoft Internet Explorer.
Server

**Requesting Domino Server certificates from Verisign**

The new enrollment process for obtaining a server certificate from Verisign for Domino and Notes 4.6 (using PKCS format) for a Domino server is to copy and paste your server certificate request into the specified area at http://digitalid.verisign.com/ss_intro.html. The server list should include the Domino server. Contact Verisign for more information.

To use R4.1x and R4.5x, continue to use the same method of going to http://digitalid.verisign.com and selecting the Domino server icon for a Web server certificate (PEM format).

Server

**SSL cipher specification**

Server administrators can specify an SSL cipher specification in the Notes.ini file to limit the ciphers used by SSL. This enables Domino sites to force users to make requests with a domestic browser version, for instance, and therefore use 128 bit ciphers.

*Note:* This feature is also implemented for other Notes server types, such as NHTTP, LDAP, and so on.

**Usage**

Server administrators enter this line in their Notes.ini file:

```
SSLCipherSpec=XXX
```

where XXX is a specification for one or more ciphers. (The Web server can handle more than one cipher, but the other Domino servers cannot.)

Cipher specifications are two digit numbers taken from this list of possible ciphers. Specifying a domestic-only cipher for an export server has no effect. Multiple ciphers are strung together back to back, including leading zeros, for example, "010203".

```
01 SSL_RSA_WITH_NULL_MD5
02 SSL_RSA_WITH_NULL_SHA
03 SSL_RSA_EXPORT_WITH_RC4_40_MD5
04 SSL_RSA_WITH_RC4_128_MD5
05 SSL_RSA_WITH_RC4_128_SHA
06 SSL_RSA_EXPORT_WITH_RC2_CBC_40_MD5
09 SSL_RSA_WITH_DES_CBC_SHA
0A SSL_RSA_WITH_3DES_EDE_CBC_SHA
```

For Domino 4.6, these ciphers are valid only for domestic versions:

```
SSL_RSA_WITH_RC4_128_MD5
SSL_RSA_WITH_RC4_128_SHA
SSL_RSA_WITH_DES_CBC_SHA
SSL_RSA_WITH_3DES_EDE_CBC_SHA
```
Online and Print Documentation

Client, Designer, Server

Database and book descriptions
The Domino server and Notes client provide you with online documentation databases and printed books
for many specialized tasks and individual situations. These databases and books are detailed as follows:

Administration

Lotus Domino 4.6 Administrator's Roadmap provides an overview of Domino administration
documentation.

Lotus Domino 4.6 Planning the Domino System provides information for planning, deploying, and
integrating a Domino system in all types of organizations. It also discusses Internet, intranet, and extranet
strategies for Domino.

Lotus Domino 4.6 Configuring the Domino Network shows network administrators how to configure
specific network operating systems to work with Domino, and how to configure Domino to work with their
network operating systems.

Lotus Domino 4.6 Install Guide lists platform-specific instructions on installing and setting up Domino
servers. The Domino Install Guide is also available online as a database file named SRVINST.NSF.

Lotus Domino 4.6 Getting Started with Domino explains how to roll out and set up Domino servers and
users. It also covers security, replication, the Public Address Book, server connections, server
commands, and other administration-related topics.

Lotus Domino 4.6 Extending the Domino System explains how to set up Notes mail, Internet mail, Web
server features, calendar and scheduling functionality, Advanced Services, and other
administration-related topics.

Lotus Domino 4.6 Maintaining the Domino System explains how to manage and maintain Domino
servers, users, databases, and tools, and other administration-related topics.

The Release 4.6 Administration Help database provides online help and documentation for system and
server administration tasks, deployment planning, and network configuration. The What's New view lists
new features for administrators who are already familiar with Release 3.x. The information is also
available in Planning the Domino System, Getting Started with Domino, Extending the Domino System,
Maintaining the Domino System, and Configuring the Domino Network. The online database file name for
Release 4.6 Administration Help is HELPADMIN.NSF.

Lotus Domino 4.6 Release Notes provides end-of-release information about new Domino features,
software platform requirements, known limitations and restrictions, interoperability issues, and updates for
the documentation set. The online database file name for the Release Notes is READMES.NSF.

Application development

Application Developer's Roadmap provides a task-oriented overview of the Notes application
development documentation.

Lotus Notes Designer for Domino 4.6 Application Developer’s Guide provides guidelines for new and
experienced application developers on how to plan, create, and test a Notes application.

Lotus Notes 4.5 Database Manager’s Guide focuses on the tasks involved in managing Notes databases:
rolling out new databases, managing the access control list, setting up replication, and monitoring
database activity.
Lotus Notes Designer for Domino 4.6 Programmer's Guide Part I and Part II provides guidelines for writing scripts and formulas. This book also contains a complete reference for the Notes formula language, @functions, @commands, and LotusScript® Notes classes.

Lotus Notes Designer for Domino 4.6 Java Programmer's Guide provides guidelines for using the Java programming language to interact with Notes applications and databases.


Lotus Notes 4.6 Install Guide lists platform-specific instructions on installing and setting up Notes workstations for Lotus Notes Mail, Lotus Notes Desktop, and Lotus Notes Designer for Domino. The Install Guide is also available online as a database file named WKSINST.NSF.

Lotus Notes Designer for Domino 4.6 Release Notes provides end-of-release information about new Notes features, software platform requirements, known limitations and restrictions, interoperability issues, and updates for the documentation set. The online database file name for the Notes Release Notes is READMEC.NSF.

End-users

Lotus Notes 4.6 Step-By-Step is a beginner's guide for learning how to perform common tasks.

Notes Help is a Notes database that provides context-sensitive information on all Notes client features, including information on designing and managing databases and using LotusScript. This information is also available in the Programmer's Guide, the Application Developer's Guide, and the Database Manager's Guide. The database file name for Help is HELP4.NSF.

Notes Help Lite is a Notes database that provides context-sensitive information on most Notes client features. This database is a subset of Notes Help and is intended for mobile Notes users or users with limited disk space. The database file name for Help Lite is HELPLT4.NSF.
Installation

Client, Server

Installing Domino and Notes with software distribution utilities
You can install Lotus Domino and Lotus Notes with software distribution utilities, such as the following:

- Microsoft SMS
- SystemView for OS/2 or NetView DM/2
- Tivoli/CourierTM

For more information and up-to-date technical assistance, see the Lotus Web site at:

http://www.lotus.com/systems

Client

Node install and international dictionary files
International dictionary files do not get installed during a node install. Lotus does not provide these files on the CD. You need to copy the appropriate file into your data directory.

Client

Node install and launching Notes
When performing node install (for example, installing only the data file on the local system), you are prompted at the end of the install with the question, "Would you like to launch Notes now?" This option does not work for node install. No matter whether you select Yes or No, you return to your desktop and Notes is not launched.

Client

Run nsllinst -d before uninstalling Notes on Windows NT
If you use the Notes Single Password Logon service and want to uninstall Notes on Windows NT, ensure that you delete the Single Password Logon service BEFORE you uninstall Notes. You can do this from a DOS prompt or from the Run command on the Start menu.

To delete the single password logon service, use the following format:

<drive><notesdir> nsllinst -d. For example, you might type c:\notes\nsllinst -d.

Deleting the Single Password Logon avoids rebooting problems and you can safely uninstall Notes in the normal way.
Installing Notes on Thai Windows 95
For Windows 95, shut down all other open Lotus applications before beginning the Lotus Notes installation procedure. Otherwise, the Install process cannot run properly.
If you have installed SmartCenter™, you must shut it down. If you do not shut down SmartCenter before you begin installing Notes, you receive the following error message:

LTSDLG02.DLL is in use by another application. Please close all open applications before continuing.

Installing the International English version of Notes for Windows 95 on Thai Windows 95
If you want to install the International English version of Lotus Notes for Windows 95, you must first switch the code page value in the Registry from CP874 (Thai) to CP 1252 (International English Windows). After you install, switch back to the Thai code page.

To change code pages in Windows 95:
1. Start the Registry
2. Display the key HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\NLS\Codepage. There are multiple subkeys for this key. The subkey ACP should be set to 1252 (to switch to the International English Windows code page). Check that there is a key \1252 and that there is a value like CP_1252.NLS.
3. Restart the System to force the Registry change to take effect.
4. Reverse the procedure to set the ACP value to 874; this resets the machine to the Thai code page after restarting.
5. After you change the code page to 1252, install Notes.
6. After Notes installs, reset the code page to 874 and restart Windows 95.

Refer to the International Language Input and Display document for details on how to configure Notes to support Thai languages.

Installing Notes on Windows 95 configured for Baltic Rim markets (Lithuania, Estonia, Latvia)

Shut down all other applications
For Windows 95, shut down all other open Lotus applications before beginning the Lotus Notes installation procedure. Otherwise, the Install process cannot run.

If you have installed SmartCenter™, you must shut it down. If you do not shut down SmartCenter before you begin installing Notes, you will receive the error message:

LTSDLG02.DLL is in use by another application. Please close all open applications before continuing.

Install the International English version of Notes for Windows 95 by resetting the Code Page
If you wish to install the International English version of Lotus Notes for Windows 95, you must first switch the code page value in the Registry from CP1257 (Lithuanian/Estonian/Latvian) to CP 1252 (International English Windows). After you install, be sure to switch back to the Lithuanian/Estonian/Latvian code page.
To change code pages in Windows 95, follow these steps:

1. Start the Registry.
2. Display the key HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\NLS\Codepage. There are multiple subkeys for this key. The subkey ACP should be set to 1252 (to switch to the International English Windows code page). Check that there is a key \1252 and that there is a value like CP_1252.NLS.
3. Restart the system to force the Registry change to take effect.
4. Reverse the procedure to set the ACP value to 1257; this resets the machine to the Lithuanian/Estonian/Latvian code page after restarting.
5. After you change the code page to 1252, install Notes.
6. After Notes installs, reset the code page to 1257 and restart Windows 95.

Refer to the International Language Input and Display document for details on how to configure Notes to support Baltic Rim languages.

### Client

**Installing Notes on Windows 95 configured for Thai market**

**Shut down all other applications**

For Windows 95, shut down all other open Lotus applications before beginning the Lotus Notes installation procedure. Otherwise, the install process cannot run.

If you have installed SmartCenter™, you must shut it down. If you do not shutdown SmartCenter before you begin installing Notes, you will receive the error message, **LTSDLG02.DLL is in use by another application. Please close all open applications before continuing.**

**Install the International English version of Notes for Windows 95 by resetting the Code Page** If you want to install the International English version of Lotus Notes for Windows 95, you must first switch the code page value in the Registry from CP874 (Thai) to CP 1252 (International English Windows). After you install, be sure to switch back to the Thai code page.

To change code pages in Windows 95, follow these steps:

1. Open the Registry.
2. Display the key HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\NLS\Codepage. There are multiple subkeys for this key. The subkey ACP should be set to 1252 (to switch to the International English Windows code page). Check that there is a key \1252 and that there is a value like CP_1252.NLS.
3. Restart the system to force the Registry change to take effect.
4. Reverse the procedure to set the ACP value to 874; this resets the machine to the Thai code page after restarting.
5. After you change the code page to 1252, install Notes.
6. After Notes installs, reset the code page to 874 and restart Windows 95.
Lotus Notes and Domino 4.6.5 Release Notes

Chapter 2 - Things you need to know

Server

Installing the cc:Mail MTA

The Lotus Domino cc:Mail MTA is an optional integrated Message Transfer Agent (MTA) for use with the Lotus Domino Release 4.5x (and later) servers. You can find the Lotus Domino cc:Mail MTA in \APPS\MTA\CCMAIL on the Notes and Domino CD-ROM. It can also be found on the migration Web site by selecting Lotus cc:Mail at:

http://www.lotus.com/products/migration.nsf

To install the Lotus Domino cc:Mail MTA:

1. From the \APPS\MTA\CCMAIL directory on the CD-ROM, launch MTA465.EXE to unzip the MTA files. Following the screens, you can select which directory to extract the MTA files to.
2. Although you can immediately launch into the setup after unzipping, it is recommended that you deselect the option "When done unzipping run: SETUP.EXE" so you can read the README.TXT file and the installation instructions in the MTA release notes (RN_CCMC.NSF) before installing the MTA.
3. From the directory you selected in step 1, run SETUP.EXE to install the cc:Mail MTA.

Client, Server

Installing the cc:Mail to Notes Migration tool

The cc:Mail to Notes Upgrade Tools were created for a customer-controlled migration. Using these tools, administrators can upgrade their mailboxes and post offices (POs) from cc:Mail (DB6 and DB8) to Notes mail files and Domino servers. You can find the Lotus cc:Mail to Notes Migration Tools in the \APPS\TOOLS subdirectory on the Notes and Domino CD-ROM. They can also be found on the migration Web site by selecting Lotus cc:Mail at:

http://www.lotus.com/products/migration.nsf

To install the Lotus cc:Mail to Notes Migration Tools:

1. Create a temporary directory for the cc:Mail to Notes Migration Tools and then copy the zip file DB8_464.EXE (for DB8) or DB6_464.EXE (for DB6) from the CD-ROM into the temporary directory.
2. In the temporary directory, launch DB8_464.EXE or DB6_464.EXE to unzip the migration tools files.
3. Read the Release Notes (CCNRN464.TXT) before installing the migration tools.
4. Run INSTALL.EXE from the temporary directory to install the migration tools.

Client, Server

Installing the Microsoft Mail to Notes migration tool

You can find the Lotus MS Mail to Notes Migration Tool in the \APPS\TOOLS subdirectory of the Notes and Domino CD-ROM. It can also be found on the migration Web site by selecting Lotus cc:Mail at:

http://www.lotus.com/products/migration.nsf

To install the Lotus MS Mail to Notes Migration Tool:

1. Create a temporary directory for the MS Mail to Notes Migration Tool and then copy the zipped file MMNWR10.EXE from the CD-ROM into the temporary directory.
2. In the temporary directory, launch MMNWR10.EXE to unzip the migration tool files.
3. Read the tool's Release Notes (RN_MSMIG.TXT) before installing the migration tool.
4. Run INSTALL.EXE from the temporary directory to install the migration tool.

For help using the MS Mail to Notes Migration Tool, see the MS Mail Migration Help database (MMMIGHLP.NSF).

Server

**Upgrading partitioned servers (Windows NT and Windows NT Alpha only)**

Before upgrading partitioned servers, you will need to do the following:

1. Remove all Notes.ini files from your path.
2. Modify the Lotus.ini file in the winnt35. Remove the line containing `Notes=...`
3. Modify the registry editor HKEY_LOCAL_MACHINE\Software\Lotus, remove the Notes subkey.

Designer

**Notes Global Designer file location and install**

Notes Global Designer is now stored in the `\APPS\NGD` directory as a self-extracting zip file. To install:

1. Copy the files ngd.exe and install.bat to a temporary directory on your hard drive.
   *Note:* Running either of these files directly from the CD will attempt to unzip the ngd.exe file and will fail.
2. Run install.bat from the temporary directory, which will unzip the ngd.exe file and start the Notes Global Designer installation program.

Designer

**Getting online help and documentation for Lotus Notes Designer for Domino**

By default, Help for Notes Designer is not installed on your system. To conserve disk space, you receive only Help Lite (helplt4.nsf), an abridged version of user help that does not contain any designer help. To access online help for designers, you can open the full Notes Help database (help4.nsf) on any Release 4.6 server. If you prefer to have the full Help database stored on your hard drive, follow the instructions below to customize the installation. Its file size is about 40 MB.

The full Help database contains all help for users, as well as online versions of the *Application Developer’s Guide, Programmer’s Guides, LotusScript Language Reference, and Database Manager’s Guide.*

**Installing all Designer help and documentation**

1. Start the Install program and proceed to the Install Options screen.
3. Confirm that the Notes program folder and Notes data folder are correct and click Next.
4. Select these features:
   - Notes Workstation
   - Additional Dictionaries (if you are an international user)
   - Personal Data Files
   - Notes Modems (if you use a modem)
   - Notes Designer ToolBox (to install the Designer product)
   - Notes Designer Tutorial (to install the Quick Start database)
Notes Designer Samples (to install sample databases in the sample subdirectory)
Domino Designer Data (to install templates for designing new databases)
Documentation Databases (to install Java Programmer's Guide, Administration Help, and Workstation Install Guide in the doc subdirectory)
Notes Release 4 Help (to install user and designer help)
Attachment Viewer
Java support files
Java Internationalization (if you are an international user)

5. Deselect Notes Help Lite.
6. Click Next and follow the online instructions to finish the installation.

**Note:** If you already installed the product and did not receive the help or documentation databases you wanted, you can run the Install program again. Choose "Customize features - Manual install," and select only the features you need.

**Getting help databases and documentation from the Web**
If you already installed the product and do not want to run the Install program again, you can download or browse documentation databases from the Domino & Notes User Assistance Web site.

2. Click The Domino & Notes Bookstore.
3. Click Documentation Databases.
4. Follow links to the documentation you want.

**Designer**

**Installing Notes Designer online help**
If you choose the default installation of Notes Designer, only Help Lite is installed. To install the complete online help for Notes Designer, choose the custom installation. Alternatively, you can access the complete online help for Notes Designer on your Domino server.

**Designer**

**Installing the Designer Tutorial, Templates, and Samples**
Include these components in your install selection to copy the tutorial, templates, and samples to your hard drive:

- Notes Designer Toolbox (to install the Designer product)
- Notes Designer Tutorial (to install the Quick Start database)
- Notes Designer Samples (to install sample databases in the sample subdirectory)
- Domino Designer Data (to install templates for designing new databases)

If you do not have enough disk space, the files should also be available from any Release 4.6 server.

**What is the Notes Designer tutorial?**
The Notes Designer tutorial is a database called Quick Start (qstart.nsf) that contains step-by-step instructions for Web masters who need to create a Web site quickly. It teaches you how to create a database and some simple Web pages.

**Using the tutorial**
1. Choose File - Database - Open.
2. Select Server: Local.
3. Select the database called Quick Start.
4. Click Open.
5. Follow the instructions on the first screen.

What are templates and samples?
Templates are designs you use to create new databases. The template files are stored in the Notes data directory with file names ending in .ntf. Samples are pre-designed databases (sometimes created from templates) that contain sample data. They are stored in the sample subdirectory of the Notes data directory.

Creating a database from a template
2. Fill in a title and file name.
3. Select a template to use as the database design.
4. (Optional) If you expect to customize the design, deselect "Inherit future design changes."
5. Click OK.

Browsing sample databases
1. Choose File - Database - Open.
2. Select Server: Local.
3. In the Database list, double-click the sample directory.
4. Select a database and click Add Icon.
5. Repeat Step 4 for each database you want to browse.
6. Click Done.
7. Double-click the icon for a sample database you want to browse.

Creating a new database from a sample
1. Select the sample on your workspace.
2. Choose File - Database - New Copy.
3. Change the title and file name to make them different from the original.
4. Click OK.

Client, Designer, Server
Installing and enabling DECS
Domino Enterprise Connection Services (DECS) is a new forms-based technology in Domino that provides the capability to integrate live data from enterprise systems natively into Domino applications. Beginning with Domino 4.6.3, DECS is installed as part of all Domino new and upgrade installations. While all of the necessary files are installed during the Domino Server install, including a DECS Administrator database (decsadm.nsf), the DECS feature is not automatically enabled. To enable this feature follow these instructions:

At the Domino Server...

1. Shut down the Domino server if it is running.
2. Edit the NOTES.INI file with an ASCII text editor.
3. Add "DECS" to the "ServerTasks=" entry of the NOTES.INI. (Do not use quotation marks).
4. Add a new entry: "EXTMGR_ADDINS=ndecsext.dll" or, if an entry already exists, add "ndecsext.dll" to this existing entry.
   
   Note: The name "ndecsext.dll" is platform-specific to Windows 32-bit platforms (Win32). For OS/2, the name is idecsext.dll, for AIX it is libdecsext.a, for HP-UX it is libdecsext.sl, and for Solaris it is libdecsext.so. (Do not use quotation marks).

5. Save the NOTES.INI file.
7. To confirm DECS is operational, enter the SHOW TASKS command at the Domino server console.

Note that as part of the install process in Domino and Notes release 4.6.3, documentation databases are installed that discuss DECS.

For Domino Server 4.6.3 installations, three document databases are installed:
   - Domino Connectors Setup Guide
   - Domino Enterprise Connection Services User's Guide
   - LotusScript Extension for Domino Connectors Reference Guide

For Notes Client 4.6.3 installations, two document databases are installed:
   - Domino Connectors Setup Guide
   - LotusScript Extension for Domino Connectors Reference Guide

Client, Designer, Server

**Installing and enabling DECS - current functional limitations**

The following caveats should be considered before deploying Domino Enterprise Connection Services (DECS). These caveats are relevant to the 4.6.3 release of Notes and Domino, which is the initial Lotus offering that includes DECS functionality:

- DECS/Domino running on UNIX platforms (including AIX, HP-UX, Solaris and Solaris Intel Edition) cannot access Sybase data.
- DECS/Domino running on Windows NT and OS/2 can access any Sybase data, regardless of the platform on which the Sybase server is located.
- DECS does not work in true real-time with Domino clustering; changes may be delayed from being written to the back end.

Server

**DECS not supported for multiple members of Partitioned Server**

When configuring a Partitioned Domino Server, the Domino Enterprise Connections Services (DECS) may be installed and configured on a single member of the partition. Insure that not more than one member of the partition loads the DECS server addin task, and that only the same partition member has the DECS extension manager library entry in its NOTES.INI file.

Server

**Sametime fields added to Public Name and Address Book Template**

Sametime refers to a family of upcoming products that will help realize Lotus' vision for the next generation of collaborative business applications. Once available, the Sametime family of products will include servers, clients, application development tools, solutions, and services. Sametime products are being designed to be deployed in both Domino and non-Domino environments, but these offerings are not yet available to customers as of the release of Domino and Notes 4.6.3.

However, anticipating these upcoming Sametime products, new fields for Sametime have been added to the Public Name and Address Book template in Domino Release 4.6.3. These fields will be used only by Sametime servers. Since the Domino Public Name and Address book will be shared among Sametime servers and Domino servers in the same environment, these new fields are being introduced to accommodate future interoperability of Sametime servers and Domino servers.
Changes in the Public Name and Address Book
The Domino Public Name and Address Book template now contains a field asking, "Is this a Sametime server?" By default in 4.6.3, this field is marked 'no'. For Domino servers, this field should be left at the default value of 'no'. If this field is marked 'yes' a section called "Sametime Server" will appear in the Server document. This section contains fields that will be used only on Sametime servers, when Sametime is made available at a later date.

For more information about Sametime, please visit the Lotus Sametime technology Web page at:
http://www.lotus.com/sametime

Client, Designer, Server
Installing the cc:Mail to Notes Upgrade Wizard
After the mail administrator upgrades cc:Mail mailboxes from cc:Mail post offices to Domino, users can convert their personal mail data, such as addresses, mailing lists, and message archives, to Notes using the cc:Mail to Notes Upgrade Wizard. You can find the Lotus cc:Mail to Notes Upgrade Wizard in the \APPS\TOOLS\CCMAIL subdirectory on the Notes and Domino CD-ROM. They can also be found on the migration web site at:
http://www.lotus.com/products/migration.nsf

System Requirements:
- cc:Mail Release 2.x, Release 6.x, or Release 8.x *
- Notes Client Release 4.5 or a later release
- Windows 95 or Windows NT 4.0 with SP3
- Approximately 4MB disk space to install the wizard

*Lotus cc:Mail Release 8.x for Windows users cannot migrate private addresses. Lotus cc:Mail Release 6.3x for Windows users cannot use this upgrade wizard if they already use the Release 6.3 client to access a Domino mail server. However, cc:Mail Release 6.3x users accessing a cc:Mail post office can be migrated to Domino and can then use this upgrade wizard to migrate their personal mail data before using Notes mail.

To install the Lotus cc:Mail to Notes Upgrade Wizard:

1. Run UPGWZ463.EXE from the \APPS\TOOLS\CCMAIL subdirectory on the Notes and Domino CD-ROM. Select a temporary directory to extract the installation files to.
2. Read the Release Notes (README.TXT) before installing the Upgrade Wizard.
3. Exit from Lotus Notes if it is running.
4. Run UPGWZRD.EXE and follow the prompts to install the Upgrade Wizard. Setup attempts to locate the Notes program directory and the Notes data directory. If Setup cannot locate these directories, you need to click Browse and specify the location of these directories. The Upgrade Wizard files must be installed in these directories; you cannot choose another location for these files.
5. Restart your computer before running the Upgrade Wizard.
Installing the SMTP/MIME MTA

Server

Customizing or revising the SMTP/MIME MTA configuration

After Domino server setup installs and configures the SMTP/MIME MTA, you might want to further customize or revise the SMTP/MIME MTA configuration settings. The following procedure provides a quick overview of typical configuration revisions. For more detailed instructions (with examples), see Setting Up the SMTP/MIME MTA in Chapter 4 of Extending the Domino Server.

If you want to configure for dial-up, see SMTP/MIME MTA dial-up feature under Documentation Updates in these release notes.

The following Name and Address Book documents are used to configure the SMTP MTA and can be edited. To revise these documents, start the Notes client, enter the Address Book and select one or more of the following documents to edit:

Global Domain Document: If necessary, the SMTP MTA creates the sender’s Internet address on outbound mail based on the Global Domain Record configuration. To change the appearance of Domino mail senders’ addresses edit the Global Domain document found under Server - Domains.

Foreign SMTP Domain document and Connection document: This information in these two documents is used by Domino to route outgoing Internet mail to the Domino server with the SMTP MTA. The destination domain in the Foreign SMTP Domain document must match the destination domain in the SMTP Connection document. The Relay Host field in the SMTP Connection document replaces the Optional Network Address field and is used to contain the IP address or Internet name of a relay or firewall host if one is being used.

Server document: This document contains information controlling the behavior of the SMTP MTA on the selected server. The following are some fields are used by the SMTP MTA:

In the Routing Tasks field, select “SMTP Mail Routing.”

In the Internet Message Transfer Agent [SMTP MTA] section of the Server document:

- The Global Domain name you enter here must match the Global Domain name you enter on the Global Domain document.
- The Fully Qualified Internet Host name (the registered host name for server; for example, server.acme.com) is used to construct the sender’s address on outbound mail, if necessary.
- The MTA work path is a directory/path used by the MTA to store temporary files during mail encapsulation. The directory/path should exist.

The Domino server setup modifies the notes.ini file to automatically start the MTA when the server is started. To manually run SMTP MTA instead remove the SMTPMTA task from the notes.ini and:

- At the Domino server prompt (">"), type load smtpmta
- Refer to the Getting Started for further operation of the MTA.
Server

**Installing UNIX versions of Notes to support SMTP MTA**

To properly set up UNIX versions of Notes to support the SMTP MTA, these parameters are required:

1. Enter `/opt/lotus/bin` in the path for all UNIX platforms

2. Set the environment variable `Notes_ExecDirectory` to the following values:

   - AIX: `/opt/lotus/notes/latest/ibmpow`
   - Solaris: `/opt/lotus/notes/latest/sunspa`
   - Solaris Intel: `/opt/lotus/notes/latest/sunx86`
   - HPUX: `/opt/lotus/notes/latest/hppa`

   If the `Notes_ExecDirectory` variable is not set, then the Notes init function prompts the user to set the environment variable. If it is set to a wrong value, the MTA is unable to find any of the resources.

Server

**SMTP/MIME MTA working directory**

The new integrated installer that installs both Notes Core and the SMTP/MIME MTA might create a working directory for the MTA. If it does not, you should create a working directory on a local drive for the SMTP/MIME MTA to store temporary working files, for example:

```
c:\temp
```

This working directory must match the SMTP/MIME MTA workpath found in the Internet Message Transfer Agent [SMTP MTA] field in the Server document.

---

**International Language Requirements**

Client, Server

**New CLS required so OS/2 correctly returns that it is running CP850 when interrogated**

For Domino and Notes Release 4.6.3, a new CLS file is required and the use of it is as follows:

If you are using OS/2 with Fixpack 7 (or later), the fixpack that provides Euro support and your platform codepage is CP850; you must copy `L_CP858.CLS` to `L_CP850.CLS`.

Server

**Support of Euro characters in Western language sets**

For an HTTP server to correctly handle the Euro, these settings must be made in the HTTP server character set mapping field in the Public Address Book (the PAB, sometimes also called the NAB).

To use the Euro currency sign for Western languages, first change the target character set to any of Western, Central European, Turkish, Cyrillic, Greek or Baltic and select a Windows charset (Windows-125x) as a target character set. (Use 1252, for example).
International Language Input and Display

Server

**Character set parameters**
The default parameters character sets for the language parameters are in found in this table.

<table>
<thead>
<tr>
<th>Language Name</th>
<th>Default charset</th>
</tr>
</thead>
<tbody>
<tr>
<td>us</td>
<td>US-ASCII</td>
</tr>
<tr>
<td>jp</td>
<td>ISO-2022-JP</td>
</tr>
<tr>
<td>cn</td>
<td>x-gbk</td>
</tr>
<tr>
<td>kr</td>
<td>iso-2022-kr</td>
</tr>
<tr>
<td>tw</td>
<td>big5</td>
</tr>
<tr>
<td>LT</td>
<td>ISO-8859-1</td>
</tr>
<tr>
<td>th</td>
<td>Windows-874</td>
</tr>
</tbody>
</table>

Key = United States (us), Japanese (jp), Chinese (cn), Korean (kr), Taiwanese (tw), Latin (LT), Thai (th)

Lotus recommends the use of an uppercase LT to avoid confusion between a lower case "l" and an upper case "L".

Server

**Character set support**
X-GBK is replaced by GB2312
Support for Windows-874 is added.
Support for KOI8-R is added.

Server

**International character file attachments**
International character filenames (especially Double-Byte characters) will not always convert properly due to a lack of current Standards that apply.
Japanese language parameter entries and character sets

Depending upon the needs of your site, the following Language Parameter double-byte character set (DBCS) entries can be chosen. Currently, only one Language Parameter, not multiple, should be entered into this field, contained in the SMTP MTA subform of the server document.

<table>
<thead>
<tr>
<th>Language Parameter Entry</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>jp</td>
<td>Entry will default messages to ISO-2022-JP</td>
</tr>
<tr>
<td>jp/out=iso-2022-jp</td>
<td>Entry will convert outbound messages to ISO-2022-JP</td>
</tr>
<tr>
<td>jp/out=x-eucjp or jp/out=x-euc-jp</td>
<td>Either string will convert outbound messages to EUC-JP</td>
</tr>
<tr>
<td>jp/out=x-sjis</td>
<td>Entry will convert outbound messages to Shift JIS</td>
</tr>
</tbody>
</table>

Character Set (Charset) Alias Names

Another charset name, in addition to those listed above, can be entered into the Language Parameter string of the SMTP server subform. To do this, open SMTPTBLS.NSF database. Edit the character set name field of the MTA Table (for example, to the existing "x-euc-jp", add "euc-jp", "eucjp"). The SMTP MTA then accepts this name for inbound message character set. Note that the first entry of the charset names list must still be the official IANA registered name, if there is one, because that name is what we put into the MIME headers of outgoing messages.

Thai language parameter entries and character sets

The Thai default character set (charset) is Windows-874. Thai has only one charset entry in SMTPTBLS.NSF database. So the "charset=" parameter is unnecessary. All outbound messages are converted to "text/plain; charset=Windows-874". If you need to change the charset name string, you must change the order of the charset listed in SMTPTBLS.NSF database. The first charset listed, is used for charset name string.

The default header/body encoding method is base64.

<table>
<thead>
<tr>
<th>Language Parameter Entry</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>th</td>
<td>Entry specifies the default charset to Windows-874. Header field and body part are converted to Base64.</td>
</tr>
<tr>
<td>th/charset=windows-874</td>
<td>Entry specifies the default charset to Windows-874. Header field and body part are converted to Base64.</td>
</tr>
<tr>
<td>th/he=QP/be=QP</td>
<td>Entry converts outbound header field and body part to Quoted-Printable.</td>
</tr>
<tr>
<td>th/charset=windows-874/he=QP/be=QP</td>
<td>Entry converts outbound header field and body part to Quoted-Printable.</td>
</tr>
</tbody>
</table>

How to use

Specify "th" in the Language Parameter field in the server document's SMTP/MIME MTA configuration subform.

You must change the "Message typeface" to "Helvetica" or "Times Roman" in SMTP subform on the Server document, to ensure that the mail body for Thai mail received by the SMTP MTA is displayed in the correct font.
Outbound
By default, SMTP MTA sends Thai messages using the Windows-874 character set. The header (Subject) is encoded in RFC1522/base64. The body is encoded in base64.

Inbound
By default, SMTP MTA assumes that all non-ASCII incoming messages are in Windows-874. If the inbound message contains MIME, the charset parameter in the Content-Type header field will be used, but the character set conversion for other languages may fail.

Restrictions
- No automatic line wrapping is available in both message headers and body. If there are lines longer than 75 columns, they might wrap at the middle of the word, or at the middle of letter.
- Thai letters in Notes user names are not supported
- Thai filenames may not display correctly when sent from one Notes user to another Notes user, using SMTP.

Server
MIME versus simple text
Matrix of supported combinations of Message Content vs Attachment Encoding

<table>
<thead>
<tr>
<th>Message Content Options</th>
<th>Base 64</th>
<th>Quoted Printable</th>
<th>UUEncode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Users without Lotus Notes [MIME]</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Simple Text only mail users</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Only Lotus Notes Users</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Users with and without Lotus Notes (not a recommended option)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Server
Netscape Communicator R4.x and Outlook 98 limitations displaying the Euro character
When you send e-mails from Notes to the Internet via the SMTP MTA in Domino 4.6.3, containing the Euro character from any of the following locales:

- Eastern European (iso-8859-2 or windows-1250)
- Russian (koi8-r or windows-1251)
- Baltic (iso-8859-4 or windows-1257)
- Turkish (iso-8859-9 or windows-1254)
- Greek (iso-8859-7 or windows-1253)

... and if Netscape Communicator is your Web Mail client, the Euro will display incorrectly in the header and body of the e-mail.
Also, if Outlook 98 is your Web Mail Client the Euro will display incorrectly in the header of the mail for all of the locales mentioned above, and for Western European (iso-8859-1 or windows-1252) as well.

These are Netscape Communicator R4.x and Outlook 98 limitations.

Server

**Netscape Communicator R4.x header limitation receiving mails from SMTP MTA R4.63**

The following should be noted when you send mails containing International characters from the Western European (iso-8559-1 or windows-1252), Eastern European (iso-8859-2 or windows-1250) or Baltic (iso-8859-4 or windows-1257) locales from Notes to the Internet via the Domino SMTP MTA in Release 4.6.3.

If Netscape Communicator is your Web Mail Client, the header information of the mail will not display properly. In Netscape the To:, CC:, BCC:, FROM: and SUBJECT: fields all contain Quoted Printable co-ordinates rather than displaying the International character itself. Additionally, the same thing occurs in attachment names.

This is a Netscape Communicator R4.x limitation.

Client, Designer

**Add font for euro symbol**

In order to display the euro currency symbol in Notes, you must add the necessary font support. You can this by downloading and installing one of the following Microsoft patches. The URLs shown below are currently correct, but like all Web URLs they are subject to change.

Windows NT 4.0 Workstation euro currency symbol support upgrade:


Windows NT 4.0 Server euro currency symbol support upgrade:


Windows 95 euro currency symbol support upgrade:

http://www.microsoft.com/windows95/downloads/contents/wurecommended/s_wufeatured/w95europatch/default.asp?

Once this is installed, the euro symbol can be entered by using the keystroke Alt+0128.

**Note:** You can use only the following fonts with the euro symbol: Courier New, Arial, or Times New Roman.
Character set configuration for Internet protocols

The file CHARSETS.NCF is used by the Domino Server and the Notes Designer client to configure character set information for Internet protocols over Web Navigator, IMAP, POP3, LDAP and NNTP (but not the SMTP MTA, which has its own character set configuration mechanism).

This file is located in the Notes data directory. Default values are used if the file is not found. You can override the name or location of the file by setting the parameter CharsetConfigFile in the NOTES.INI file.

For example:

```plaintext
CharsetConfigFile=c:\charinfo.txt
```

For workstations, a default CHARSETS.NCF file is copied to your hard drive when you install the Notes Designer client. The file is an ASCII text file. The following NOTES.INI variables are superseded by CHARSETS.NCF and are no longer supported:

- WWWDSP_CODEPAGE
- MailCharSet

The following list of commands can appear in CHARSETS.NCF. For each command, a brief synopsis and example is provided. Commands and parameters are not case sensitive. The built in default values or localized values can be used for most installations.

Comments (delimited by a semicolon) can appear at the beginning of a line or after a command. For example:

```plaintext
; This line is just a comment
DEFAULT-FONT-SIZE 12 ; This comment follows a command on the same line
```

For each command that takes a "charset-name-or-id" parameter, the parameter can either be a name, such as iso-8859-1, or the number (in decimal) for the character set from the SDK, such as 32 for iso-8859-1.

For each command that takes an "encoding-method" parameter, the parameter can be "quoted-printable", "base64", "7bit", "8bit", or "guess". The choice "guess" indicates to analyze the data and use "quoted-printable" or "base64" depending on whether the data is composed of primarily US-ASCII characters. As an abbreviation, "q", "b", "7", "8", and "g" can be used.

The commands in the CHARSETS.NCF file are as follows:

**ALIAS** `<charset-alias> <charset-name-or-id>`

Defines an alias for an existing character set for input. The charset-alias must contain only US-ASCII characters. This allows recognition of non-standard character set names sent by clients. If charset-alias begins with an asterisk (*), it is used as the name for output too.

Example: Define alias so that on input the non-standard name "shift_jis" is recognized to be the same character set as the predefined standard x-sjis character set.

```plaintext
ALIAS shift_jis x-sjis
```

Example: When exporting mail, use name "iso-8859" rather than "iso-8859-1".

```plaintext
ALIAS *iso-8859 iso-8859-1
```
ATTACHMENT-ENCODING <encoding-method>
Specifies the encoding to use when exporting file attachments. For this command, only the encoding methods base64, quoted-printable, and guess are supported. That is, 7-bit and 8-bit are not allowed.

Example: Use base64 encoding when exporting file attachments.
ATTACHMENT-ENCODING b

CHARSET-FONT-FACE <charset-name-or-id> <face-id>
Specifies the font face to use when importing data from the designated character set. This supersedes the setting in the DEFAULT-FONT-FACE command. This command lets you use fixed width fonts for some character sets and variable width fonts for others. Valid values for Face-ID are 0 (zero) for Roman, 1 for Swiss, and 4 for Typewriter face. The actual font used depends on the operating system and the localization.

Example: Use a variable width font when importing Thai (cp874).
CHARSET-FONT-FACE cp874 0

CHARSET-FONT-SIZE <charset-name-or-id> <font-size>
Specifies the font size to use when importing data from the designated character set. This supersedes the setting in the DEFAULT-FONT-SIZE command. Valid values are from 4 to 32.

Example: Use a 12 point font when importing from a Japanese character set.
CHARSET-FONT-SIZE iso-2022-jp 12
CHARSET-FONT-SIZE x-euc-jp 12
CHARSET-FONT-SIZE x-sjis 12

DEFAULT-FONT-FACE <face-id>
Specifies the default font face to use when importing data. The default font face is used except when superseded by the CHARSET-FONT-FACE command. Valid values for Face-ID are 0 (zero) for Roman, 1 for Swiss, and 4 for Typewriter face. The actual font used depends on the operating system and the localization.

Example: Use a fixed width typewriter font by default.
DEFAULT-FONT-FACE 4

DEFAULT-FONT-SIZE <font-size>
Specifies the default font size to use when importing data. The default font size is used except when superseded by the CHARSET-FONT-SIZE command. Valid values are from 4 to 32.

Example: Use a 10 point font by default.
DEFAULT-FONT-SIZE 10

DETECT-ORDER [optional Country1] [optional Country2] [optional Country3] [optional Country4]
Specifies the order of Asian countries/languages to check when autodetecting the character set for incoming data. The default is to not do any Asian autodetection unless the country/language is China, Japan, Korea or Taiwan. In that case, the local country/language is used. Valid country names are CN for China, JP for Japan, KR for Korea, and TW for Taiwan.

Example: Do no Asian autodetection.
DETECT-ORDER
Example: Try Japanese only.
DETECT-ORDER JP

Example: Try Korean and then Japanese.
DETECT-ORDER KR JP

ENCODED-FALLBACK [optional charset-name-or-id]
Specifies the character set to use when an incoming encoded word (RFC1522/2047) character set is not recognized. No parameter means to just leave input as an encoded word. Specifying no encoded fallback (the default) allows you to see in the client the originally specified character set name that was unrecognized. This gives you an opportunity to determine the intended character set and to add an ALIAS for future sessions.

Example: If an unrecognized character set name is detected in an encoded word on input, leave it as an encoded word, such as =?unknown?q?example?= ENCODED-FALLBACK

Example: Assume Big5 character set if character set name is not recognized.
ENCODED-FALLBACK big5

ENCODING <charset-name-or-id> <header encoding-method>[optional body encoding-method] [optional filename encoding-method]
Specifies the output encoding to use for a character set under different conditions (in the header, in the body, and for filenames in the header). If only header encoding method is specified, it is used for all three. If two encoding methods are specified, then filename encoding will be the same as the header encoding.

Example: Encode iso-8859-1 using quoted printable.
ENCODING iso-8859-1 q

Example: Encode big5 using 8bit in the header, base64 in the body, and 8bit for filenames.
ENCODING Big5 8 b 8

EXIT
End configuration file prematurely. Everything below this command is a comment.

Example:
EXIT

FALLBACK <charset-name-or-id> [optional charset-name-or-id]
Specifies character set to use when incoming data does not have a character set specified and when the data cannot be identified using autodetection. If one parameter is specified, then the specified character set is used. If two parameters are specified, then the first is used if the incoming data is only 7-bit characters and the second is used if it contains 8-bit characters.

Example: Use iso-8859-1 for incoming data where the character set cannot be determined.
FALLBACK iso-8859-1

Example: Use iso-8859-1 for 7-bit incoming data where character set cannot be determined; EUC-JP for 8-bit data.
FALLBACK iso-8859-1 euc-jp
LEADBYTE <leadbyte-number> <header-charset-name-or-id> [optional body-charset-name-or-id> [optional filename-charset-name-or-id>

This command is used to determine what character set to use for output messages based on the LMBCS text in the document. The leadbyte-parameter is the LMBCS lead byte number. Lead byte numbers can be 1-8, 11, 12, or 14-31. The commonly used lead bytes are:

1 Western European
2 Greek
3 Hebrew
4 Arabic
5 Cyrillic
6 Central European
7 Farsi
8 Turkish
11 Thai
12 Urdu
16 Japanese
17 Korean
18 Taiwanese
19 Chinese

By default, except for Korean, the default header character set, body character set, and filename character set are the same for a given lead byte. For Korean, euc-kr is used for the header and filename and iso-2022-kr is used for the body. If only the header character set is specified, it is used for all three. If two character sets are specified, then the filename character set is the same as the header character set.

Example: For Japanese characters, use euc-jp in header and filename; x-jis in body.

LEADBYTE 16 euc-jp x-jis

Example: For Western European characters, use iso-8859-1.

LEADBYTE 1 iso-8859-1

Client, Server

Controlling the character set used by Web Navigator

The new charsets.ncf configuration file controls the character set used by Web Navigator when the character set cannot be determined directly from either the client or from the Web page. The Web Navigator first looks for a character set specified by the client (through @URLOpen) and next looks for MIME character set information (MIME content type: ...;charset=MIME name).

Client, Server

Cyrillic font support in Web Navigator

For default Cyrillic font support when retrieving HTML pages from the Internet using Web Navigator, follow the steps for the appropriate platform:

Windows 95 and Windows 3.1

Edit the WIN.INI file and insert the following line in the [FontSubstitutes] section:

Times New Roman,0=Times New Roman,204
Windows NT 3.51
Follow these steps to edit the Windows NT registry:
1. Run REGEDT32.EXE.
2. Select the HKEY_LOCAL_MACHINE window.
3. Choose View - Find by Key and search for fontsubstitutes.
5. Enter the value name "Times New Roman,0" and click OK.
6. Then enter the string "Times New Roman,204."

Windows NT 4.0
Follow these steps to edit the Windows NT registry:
1. Run REGEDIT.EXE.
2. Select the HKEY_LOCAL_MACHINE folder.
3. Choose Edit - Find and search for fontsubstitutes.
5. Enter the value name "Times New Roman,0" and click OK.
6. Double-click value name and enter value data "Times New Roman,204."

Client
Dutch dictionary
A new dictionary is now available for the Dutch language. This dictionary negates the need for both "Dutch Preferred" and "Dutch General" options in the user preferences.

If you previously selected "Dutch Preferred" as the spell check language, an error displays when you run a spell check. The error is because Notes assumes this is an invalid language (which is now true). Go to the User Preferences dialog and select “Dutch” as their spell check language to correct this problem.

Client, Server
Eastern European support for Full Text Search
For added Eastern European language support for full text search, edit NOTES.INI and add the following line:

FT_INDEX_ACCENT_SENS=1

This enables finding words that contain an accented character.

Client, Server
Enabling Eastern European and Russian support (UNIX)
You can configure Notes on the AIX platform to support display and entry of iso8859-2/iso8859-5 characters. Some NLS modifications are also required. Complete the following tasks:

1. Install Operating System Country Language Supplement
2. Copy Notes CLS Files
3. Add Notes NLS directories
4. Install mirage.ini
5. Edit notes.ini [Web Navigator]
6. Run Notes

The following table lists the characters and the languages they support:

<table>
<thead>
<tr>
<th>Character</th>
<th>Languages</th>
</tr>
</thead>
<tbody>
<tr>
<td>iso8859-2</td>
<td>Czech, Hungarian, Polish, Albanian, Croatian, Romanian, Slovak, Slovenian, Serbian</td>
</tr>
<tr>
<td>iso8859-5</td>
<td>Russian, Byelorussian, Bulgarian, Ukrainian</td>
</tr>
</tbody>
</table>

**Note**: The Czech, Hungarian, Polish, Croatian, Romanian, Slovak, Slovenian, Serbian, Russian, and Bulgarian languages are AIX 4.1.4 supported locales.

**Install EE Country Language Supplement**
Install the AIX Language supplement for EE Language using smit or smitty (i.e., Polish Language Supplement)

```
smitty lang
```

**Copy Notes CLS Files [Code Page and Collation]**

**Code Page**
For iso8859-2, copy l_cp8592.cls to l_cp8859.cls:

```
cp /opt/lotus/notes/latest/ibmpow/l_cp8592.cls /opt/lotus/notes/latest/ibmpow/ l_cp8859.cls
```

or

For iso8859-5, copy l_cp915.cls to l_cp8859.cls:

```
cp /opt/lotus/notes/latest/ibmpow/l_cp915.cls /opt/lotus/notes/latest/ibmpow/ l_cp8859.cls
```

**Collation**

```
cp collxxxx.cls to collstd.cls (see collation reference table below):

cp /opt/lotus/notes/latest/ibmpow/colee.cls /opt/lotus/notes/latest/ibmpow/ collstd.cls
```

**Add Notes NLS directories**
Copy and link C nls directories to East European $LANG directories.

Copy resource directory [../res/C]:

```
cp -r /opt/lotus/notes/latest/ibmpow/res/C /opt/lotus/notes/latest/ibmpow/res/$LANG
```

Link data and tools directories [../data/nls/C & ../tools/nls/C ]

```
l -s /opt/lotus/notes/latest/common/data/nls/C /opt/lotus/notes/latest/common/data/nls/$LANG
l -s /opt/lotus/bin/tools/nls/C /opt/lotus/bin/tools/nls/$LANG
```

For example: $LANG=pl_PL, ru_RU etc...
Install mirage.ini
1. As the root user, copy the appropriate mirage.ini [shown below] to the 
   /opt/lotus/notes/latest/ibmpow/res/C/ directory.
2. Change file ownership to Notes install username [notes] and file permission to read [-r - - r - - r - -]
   cp eemirage.ini /opt/lotus/notes/latest/ibmpow/res/$LANG/mirage.ini
   or
   cp rumirage.ini /opt/lotus/notes/latest/ibmpow/res/$LANG/mirage.ini
   cd /opt/lotus/notes/latest/ibmpow/res/$LANG/
   chown notes mirage.ini
   chmod 444 mirage.ini
   for iso-8859-2: eemirage.ini
   for iso8859-5: rumirage.ini
   See file content listings below.

Edit notes.ini [Web Navigator]
Set the notes.ini variable WWWDSP_CODEPAGE in the notes.ini. See the full notes.ini reference list
below for more information. This file is located in the Notes data directory [i.e./home/yyyy/notesr4]
[8859-2] WWWDSP_CODEPAGE=33
   or
[8859-5] or [KOI8] WWWDSP_CODEPAGE=36 or WWWDSP_CODEPAGE=3308

Run Notes AIX
Make sure the $LANG variable is set [that is, LANG=pl_PL or LANG=ru_RU ; export LANG]
   /opt/lotus/bin/notes &
   You should notice a font change within Notes itself. Notes should now support entry and display of
   the iso8859-2/iso8859-5 characters.

Reference Information:
See the topic "International Language Input and Display" in this section.

eemirage.ini listing:

```
[FontMapping]
FONTMAP1=Helv : helvetica
FONTMAP2=Arial : helvetica
FONTMAP3=MS Sans Serif : helvetica
FONTMAP4=MS San Serif : helvetica
FONTMAP5=Ms Serif : courier
FONTMAP6=Tms Rmn: times
FONTMAP7=Utopia Black : utopia
```

[FontSpec]
FONTSPEC1=-adobe-*-*-*-*-*-*-*-*-*-*-*-iso8859-2
FONTSPEC2=-b&h-*-*-*-*-*-*-*-*-*-*-*-iso8859-2
FONTSPEC3=-bitstream-*-*-*-*-*-*-*-*-*-*-*-iso8859-2
FONTSPEC4=-schumacher-*-*-*-*-*-*-*-*-*-*-*-iso8859-2
FONTSPEC5=-linotype-*-*-*-*-*-*-*-*-*-*-*-iso8859-2
FONTSPEC6=-monotype-*-*-*-*-*-*-*-*-*-*-*-iso8859-2
FONTSPEC7=-*-symbol-*-*-*-*-*-*-*-*-*-*-*-adobe-fontspecific
FONTSPEC8=-adobe-*-*-*-*-*-0-0-100-100-*-0-iso8859-2
FONTSPEC9=-adobe-*-*-*-*-*-0-0-75-75-*-0-iso8859-2
FONTSPEC10=-b&h-*-*-*-*-*-0-0-100-100-*-0-iso8859-2
FONTSPEC11=-b&h-*-*-*-*-*-0-0-75-75-*-0-iso8859-2
FONTSPEC12=-bitstream-*-*-*-*-*-0-0-100-100-*-0-iso8859-2
FONTSPEC13=-bitstream-*-*-*-*-*-0-0-75-75-*-0-iso8859-2
FONTSPEC14=-schumacher-*-*-*-*-*-0-0-100-100-*-0-iso8859-2
FONTSPEC15=-schumacher-*-*-*-*-*-0-0-75-75-*-0-iso8859-2
FONTSPEC16=-linotype-*-*-*-*-*-0-0-100-100-*-0-iso8859-2
FONTSPEC17=-linotype-*-*-*-*-*-0-0-75-75-*-0-iso8859-2
FONTSPEC18=-monotype-*-*-*-*-*-0-0-100-100-*-0-iso8859-2
FONTSPEC19=-monotype-*-*-*-*-*-0-0-75-75-*-0-iso8859-2

[SystemFont]
SYSFONT=helvetica

rumirage.ini listing:

[FontMapping]
FONTMAP1=Helv : helvetica
FONTMAP2=Arial : helvetica
FONTMAP3=MS Sans Serif : helvetica
FONTMAP4=MS San Serif : helvetica
FONTMAP5=Ms Serif : courier
FONTMAP6=Tms Rmn: times
FONTMAP7=Utopia Black : utopia

[FontSpec]
FONTSPEC1=-adobe-*-*-*-*-*-*-*-*-*-*-*-iso8859-5
FONTSPEC2=-b&h-*-*-*-*-*-*-*-*-*-*-*-iso8859-5
FONTSPEC3=-bitstream-*-*-*-*-*-*-*-*-*-*-*-iso8859-5
Changes to NOTES.INI file:
See the topic "Controlling the character set used by Web Navigator settings" in the International Language Input and Display section of the Things you need to know chapter.

Client, Server

**Enabling Japanese support**

**Japanese input and display**

Microsoft Windows and OS/2 servers support the input and display of text in the Japanese version of Windows or OS/2, if you copy the specific .CLS files as described below.

**Note:** Exit Notes before copying these files.

**For Windows**

- `L_CP932.CLS` to `L_CPDOS.CLS`
- `L_CP932.CLS` to `L_CPWIN.CLS`
- `COLLPJN.CLS` to `CLLSTD.CLS`
- `DBCS\LEADBYTE.CLS` to NOTES DIRECTORY
- `DBCS\HLFPITCH.CLS` to NOTES DIRECTORY
- `DBCS\FULPITCH.CLS` to NOTES DIRECTORY

**For OS/2**

- `L_CP932.CLS` to `L_CPP942.CLS`
- `L_CP932.CLS` to `L_CPP943.CLS`
- `COLLPJN.CLS` to `CLLSTD.CLS`
- `DBCS\LEADBYTE.CLS` to NOTES DIRECTORY
- `DBCS\HLFPITCH.CLS` to NOTES DIRECTORY
- `DBCS\FULPITCH.CLS` to NOTES DIRECTORY
**Japanese character support for Full Text Search**
You can use the following setting in NOTES.INI on a workstation or server to support the Japanese character set for Full Text Search:

```
FT_Intl_Settings=1
```

**Japanese character support in HTTP Server**
You can use the following setting on a server to control the Japanese character set used by the HTTP server:

Change Domino Language to Japanese in the Server document, HTTP server section, Default character set group, in NAMES.NSF.

**Windows NT Performance Monitor**
You can use the following setting on a server to control the Japanese character set used by the Windows NT performance monitor.

```
011=OtherLanguage in the Language section of NOTESTAT.INI
```

```
0_011_Name=Lotus Notes
0_011_Help=Lotus Notes Statistics Package Object
2_011_Name=Lotus Notes Statistics
2_011_Help=Statistics for Notes Statistics Package (see instances)
```

...in the Text section of NOTESTAT.INI.

**LotusScript**
Local time and date format cannot be used in LotusScript in the North American and International English Edition. If you want to use these formats, contact Lotus.

**Client, Server**

**Enabling Korean support**

**Korean input and display**
Microsoft Windows and OS/2 servers support the input and display of text in the Korean version of Windows or OS/2, if you copy the specific .CLS files as described below.

On Windows, Korean Region has to be set in the Windows Regional setting.

**Note:** Exit Notes before copying these files.

**For Windows**
- L_CPKS.CLS to L_CPDOS.CLS
- L_CPKS.CLS to L_CPWIN.CLS
- COLLKS.CLS to COLLSTD.CLS
- DBCS\LEADBYTE.CLS to NOTES DIRECTORY
- DBCS\HLFPITCH.CLS to NOTES DIRECTORY
- DBCS\FULPITCH.CLS to NOTES DIRECTORY
For OS/2

L_CPKS.CLS to L_CPDOS.CLS  
L_CPKS.CLS to L_CP949.CLS  
COLLKS.CLS to COLLSTD.CLS  
DBCS\LEADBYTE.CLS to NOTES DIRECTORY  
DBCS\HLFPITCH.CLS to NOTES DIRECTORY  
DBCS\FULPITCH.CLS to NOTES DIRECTORY

Korean character support for Full Text Search
You can use the following setting in NOTES.INI on a workstation or server to support the Korean character set for Full Text Search:

FT_Intl_Settings=1

Hangul Hanja conversion
You can use the following settings to enable Hangul Hanja Conversion on Windows 3.1 workstations, Windows 95 workstations, and Windows NT (workstations or servers).

For Windows 3.1

W32HHDLL=<PROG PATH>\ltshj01.dll  
HHDataDictionary=<DATA PATH>\ltshanja.dic  
HHUserDictionary=<DATA PATH>\Usrhanja.dic in Notes.ini

For Windows 95 or Windows NT

W32HHDLL=<PROG PATH>\lthjcn10.dll  
HHDataDictionary=<DATA PATH>\ltshanja.dic  
HHUserDictionary=<DATA PATH>\Usrhanja.dic in Notes.ini

Korean character support for Full Text Search
You can use the following setting in the NOTES.INI file on a workstation or server to support the Korean character set for Full Text Search:

FT_Intl_Settings=1

Korean character support in HTTP Server
You can use the following setting on a server to control the Korean character set used by the HTTP server:

Change Domino Language to Korean in the Server document, HTTP server section, Default character set group, in NAMES.NSF.

Windows NT Performance Monitor
You can use the following setting on a server to control the Korean character set used by the Windows NT performance monitor.

1.  012=OtherLanguage in the Language section of NOTESTAT.INI

2.  0_012_Name=Lotus Notes  
    0_012_Help=Lotus Notes Statistics Package Object  
    2_012_Name=Lotus Notes Statistics  
    2_012_Help=Statistics for Notes Statistics Package (see instances)

...in the Text section of NOTESTAT.INI.
LotusScript
Local time and date format cannot be used in LotusScript in the North American and International English Edition. If you want to use these formats, contact Lotus.

Client, Server
Enabling Simplify Chinese support
Simplify Chinese input and display
Microsoft Windows and OS/2 servers support the input and display of text in Simplify Chinese on a Simplify Chinese version of Windows or OS/2, if you copy specific .CLS files as described below.

On Windows, Chinese (China) Region has to be set in Windows Regional setting.

Note: Exit Notes before copying these files.

For Windows

L_CPGB.CLS to L_CPDOS.CLS
L_CPGB.CLS to L_CPWIN.CLS
COLLGB.CLS to COLLSTD.CLS
DBCS\LEADBYTE.CLS to NOTES DIRECTORY
DBCS\HLFPITCH.CLS to NOTES DIRECTORY
DBCS\FULPITCH.CLS to NOTES DIRECTORY

For OS/2

L_CPGB.CLS to L_CPDOS.CLS
L_CPGB.CLS to L_CP1381.CLS
COLLGB.CLS to COLLSTD.CLS
DBCS\LEADBYTE.CLS to NOTES DIRECTORY
DBCS\HLFPITCH.CLS to NOTES DIRECTORY
DBCS\FULPITCH.CLS to NOTES DIRECTORY

Simplify Chinese Character support for Full Text Search
You can use the following setting in NOTES.INI on a workstation or server to support the Simplify Chinese Character set for Full Text Search:

FT_Intl_Setting=1

Simplify Chinese Character support in HTTP Server
You can use the following setting on a server to control the Simplify Chinese Character set used by the HTTP Server:

Simplified Chinese in the Server document HTTP Server section, Default Character set group, in NAMES.NSF.

Windows NT performance monitor
You can use the following settings on a server to control the Simplify Chinese Character set used by the Windows NT performance monitor:

1. 004=OtherLanguage in the Language section of NOTESTAT.INI

2. 0_004_Name=Lotus Notes
   0_004_Help=Lotus Notes Statistics Package Object
2_004_Name=Lotus Notes Statistics
2_004_Help=Statistics for Notes Statistics Package (see instances)

...in the Text section of NOTESTAT.INI.
LotusScript
Local time and date format cannot be used in LotusScript in the North American and International English Edition. If you want to use these formats, contact Lotus.

Client, Designer, Server
Enabling Thai support
Thai input and display
Microsoft Windows and OS/2 servers support the input and display of text in Thai on a Thai version of Windows or OS/2, if you copy specific .CLS files as described below.

Note: Exit Notes before copying these files.
For Windows
L_CP874.CLS to L_CPDOS.CLS
L_CP874.CLS to L_CPWIN.CLS
COLLTHAI.CLS to COLLSTD.CLS

For OS/2
L_CP874.CLS to L_CPDOS.CLS
COLLTHAI.CLS to COLLSTD.CLS

Support for Thai sorting (UNIX)
To support Thai sorting, disable Tools - User Preferences - International - Scandinavian collation.

Client, Designer, Server
Enabling Traditional Chinese support
Traditional Chinese input and display
Microsoft Windows and OS/2 servers support the input and display of text in Traditional Chinese on Traditional Chinese version of Windows or OS/2, if you copy specific .CLS files as described below.

On Windows, Chinese (Taiwan) Region has to be set in the Windows Regional setting.

Note: Exit Notes before copying these files.
For Windows
L_CPBIG5.CLS to L_CPDOS.CLS
L_CPBIG5.CLS to L_CPWIN.CLS
COLLBIG5.CLS to COLLSTD.CLS
DBCS\LEADBYTE.CLS to NOTES DIRECTORY
DBCS\HLFPITCH.CLS to NOTES DIRECTORY
DBCS\FULPITCH.CLS to NOTES DIRECTORY

For OS/2
L_CPBIG5.CLS to L_CPDOS.CLS
L_CPBIG5.CLS to L_CP950.CLS
COLLBIG5.CLS to COLLSTD.CLS
DBCS\LEADBYTE.CLS to NOTES DIRECTORY
DBCS\HLFPITCH.CLS to NOTES DIRECTORY
DBCS\FULPITCH.CLS to NOTES DIRECTORY

Traditional Chinese Character support for Full Text Search
You can use the following setting in NOTES.INI on a workstation or server to support Traditional Chinese Character set for Full Text Search:

FT_Intl_Setting=1
Traditional Chinese Character support in HTTP Server
You can use the following setting on a server to control the Traditional Chinese Character set used by the HTTP Server: Traditional Chinese in the Server document, HTTP Server section, Default Character set group, in NAMES.NSF.

Windows NT Performance Monitor
You can use the following setting on a server to control the Traditional Chinese Character set used by the Windows NT performance monitor.

1. \texttt{004=OtherLanguage} in Language section of NOTESTAT.INI

2. \texttt{0_004_Name=Lotus Notes}
   \begin{itemize}
   \item \texttt{0_004_Help=Lotus Notes Statistics Package Object}
   \item \texttt{2_004_Name=Lotus Notes Statistics}
   \item \texttt{2_004_Help=Statistics for Notes Statistics Package (see instances)}
   \end{itemize}

...in the Text section of NOTESTAT.INI.

LotusScript
Local time and date format cannot be used in LotusScript in North American and International English Edition. If you want to use these formats, contact Lotus.

Server
Encoding and decoding of non-ASCII addresses
Internet protocols do not define a standard for encoding non-ASCII characters in addresses. (RFC 1522 and RFC 2047 define an encoding for the "comment" or "phrase" parts of an address, but not for the "local" part). In some cases, when automatically generating an "Internet-style address" from a "Notes-style address," it is necessary for the IMAP4, POP3, and NNTP servers to use a special, reversible, encoding for Notes-style address. It typically appears as something like \texttt{aaaa0xL1AAzbbbb@internet.com}, where the "0xL1AAz" is a substitution for a non-ASCII character. The SMTP MTA can also generate this encoding (if unable to find an alternative ASCII address in the Name and Address Book), controllable by the NOTES.INI variable: \texttt{SMTP_I18N_PHRASE}.

When a message with this encoding is replied to, the SMTP MTA is able to decode the address into the original form and route it to the desired Notes user.

If you are using an earlier version of the SMTP MTA than 4.6, you may have to add this automatically generated address as a "Short Name" in the user's Name and Address Book because the automatic decoding will not take place. Additionally, if your Notes domain name contains Non-ASCII characters, you may have to add the automatically generated address as an alias for the domain in the Global Domain Record.

For more information, please see the release note, "International Characters in Non-responsible Names", in the \textit{Troubleshooting} chapter, under SMTP MTA Issues.

Client, Designer, Server
International character support in Web Navigator
When you have insufficient character set information configured in charsets.ncf, you can provide character set information through the following formula:
\begin{verbatim}
@@URLOpen(URL;[Reload];MIME name)
\end{verbatim}
This formula should be added as one of the SmartIcons in the Default SmartIcons Set or as an Action Button in a View in your Web Navigator Database.

See the table in the topic *Controlling the character set used by Web Navigator* in the International Language Input and Display section of the *Things You Need to Know* chapter for the correct character set and MIME name.

**Language defaults for CharSet.NCF**

<table>
<thead>
<tr>
<th>Western European</th>
<th>Central European</th>
<th>Cyrillic</th>
<th>Baltic Rim</th>
<th>Greek</th>
<th>Turkish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachment - Encoding *</td>
<td>Q</td>
<td>Q</td>
<td>B</td>
<td>Q</td>
<td>B</td>
</tr>
<tr>
<td>Charset - Font - Face</td>
<td>cckSTRCharSe tISO88591 = 0x0020.</td>
<td>cckSTRCharSe tISO88592 = 0x0021.</td>
<td>cckSTRCharSe tISO88594 = 0x0023.</td>
<td>cckSTRCharSe tISO88597 = 0x0026.</td>
<td>cckSTRCharSe tISO88599 = 0x0028.</td>
</tr>
<tr>
<td>Default - Font - Face *</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Default - Font - Size</td>
<td>10</td>
<td>9</td>
<td>10</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>Detect order *</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>LeadByte</td>
<td>Left Blank (Western European is 01).</td>
<td>06</td>
<td>05</td>
<td>06 + 08</td>
<td>02</td>
</tr>
</tbody>
</table>

* Attachment Encoding:
  B - Base64.
  Q - Quoted Printable Encoding.

* Detect Order: N/A - Only used for Asian countries.

* Default Font Face:
  0 - Roman
  1 - Swiss. These values are overwritten by the CharSet Font Face Value.

**Western European**:
German, Italian, Spanish, French, Brazilian/Portuguese, Norwegian, Danish, Dutch, Swedish, Finnish.

**Central European**:
Czech, Polish, Hungarian.

**Cyrillic**:
Russian, Belorussian, Bulgarian, Serbian, Ukrainian, Macedonian.

**Baltic**:
Latvian, Estonian, Lithuanian.
Lotus Notes and Domino 4.6.5 Release Notes  Chapter 2 - Things you need to know

Client, Server

**Non-English language input and text display**
(This document covers options for Windows, OS/2, and NLM).

A Domino server or Notes client running a North American or International English version of Notes can automatically accept input and display text in one of the following non-English languages (if the version of Windows or OS/2 appropriate for that language is run):

- Catalan
- Danish
- Dutch
- Finnish
- French
- German
- Italian
- Indonesian
- Norwegian
- Portuguese
- Spanish
- Swedish

In addition, Windows and OS/2 servers and workstations support input and display of text in Albanian, Belorussian, Bulgarian, Croatian, Czech, Estonian, Greek, Hungarian, Latvian, Lithuanian, Macedonian, Polish, Romanian, Russian, Serbian (Cyrillic), Serbian (Latin), Slovak, Slovene, Turkish, Ukranian, Japanese, Korean, Simplified Chinese, or Traditional Chinese if you copy specific .CLS files as described in the following sections.

**Windows**

The following tables describe the files you must copy to input and display Albanian, Belorussian, Bulgarian, Catalan, Croatian, Czech, Danish, Dutch, Estonian, Finnish, French, German, Greek, Hungarian, Latvian, Lithuanian, Macedonian, Norwegian, Polish, Romanian, Russian, Serbian (Cyrillic), Serbian (Latin), Slovak, Slovene, Spanish, Turkish, Ukranian, Japanese, Korean, Simplified Chinese, or Traditional Chinese text on North American or International English versions of Notes for Windows. These files are in the Notes program directory.

**Note:** Exit Notes before copying these files.

<table>
<thead>
<tr>
<th>To input and display text in:</th>
<th>Copy:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albanian</td>
<td>L_CP850.CLS to L_CPDOS.CLS</td>
</tr>
<tr>
<td></td>
<td>L_CP1250.CLS to L_CPWIN.CLS</td>
</tr>
<tr>
<td></td>
<td>COLLEE.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Belorussian</td>
<td>L_CP866.CLS to L_CPDOS.CLS</td>
</tr>
<tr>
<td></td>
<td>L_CP1251.CLS to L_CPWIN.CLS</td>
</tr>
<tr>
<td></td>
<td>COLLCYR.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Bulgarian</td>
<td>L_CP855.CLS to L_CPDOS.CLS</td>
</tr>
<tr>
<td></td>
<td>L_CP1251.CLS to L_CPWIN.CLS</td>
</tr>
<tr>
<td></td>
<td>COLLCYR.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Catalan</td>
<td>COLL21ES.CLS to COLL2TO1.CLS</td>
</tr>
<tr>
<td>Language</td>
<td>Code Conversion</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------</td>
</tr>
</tbody>
</table>
| Croatian   | L_CP852.CLS to L_CPDOS.CLS  
L_CP1250.CLS to L_CPWIN.CLS  
COLLHR.CLS to COLLSTD.CLS  
COLL21HR.CLS to COLL2TO1.CLS |
| Czech      | L_CP852.CLS to L_CPDOS.CLS  
L_CP1250.CLS to L_CPWIN.CLS  
COLLCS.CLS to COLLSTD.CLS  
COLL21CS.CLS to COLL2TO1.CLS |
| Danish     | Collnord.cls to collstd.cls |
| Dutch      | COLL12NL.CLS to COLL1TO2.CLS |
| Estonian   | L_CP922.CLS to L_CPDOS.CLS  
L_CP1257.CLS to L_CPWIN.CLS  
COLLLT.CLS to COLLSTD.CLS |
| Finnish    | COLLF.CLS to COLLSTD.CLS |
| French     | COLL12FR.CLS to COLL1TO2.CLS |
| German     | COLL12DE.CLS to COLL1TO2.CLS |
| Greek      | L_CP737.CLS to L_CPDOS.CLS  
L_CP1253.CLS to L_CPWIN.CLS  
COLLEL.CLS to COLLSTD.CLS |
| Hungarian  | L_CP852.CLS to L_CPDOS.CLS  
L_CP1250.CLS to L_CPWIN.CLS  
COLLHU.CLS to COLLSTD.CLS  
COLL21HU.CLS to COLL2TO1.CLS |
| Japanese   | L_CP932.CLS to L_CPDOS.CLS  
L_CP932.CLS to L_CPWIN.CLS  
COLLJPN.CLS to COLLSTD.CLS  
DBCS\LEADBYTE.CLS to NOTES DIRECTORY  
DBCS\HLFPITCH.CLS to NOTES DIRECTORY  
DBCS\FULPITCH.CLS to NOTES DIRECTORY |
| Korean     | L_CPKS.CLS to L_CPDOS.CLS  
L_CPKS.CLS to L_CPWIN.CLS  
COLLKS.CLS to COLLSTD.CLS  
DBCS\LEADBYTE.CLS to NOTES DIRECTORY  
DBCS\HLFPITCH.CLS to NOTES DIRECTORY  
DBCS\FULPITCH.CLS to NOTES DIRECTORY |
| Latvian    | L_CP921.CLS to L_CPDOS.CLS  
L_CP1257.CLS to L_CPWIN.CLS  
COLLLT.CLS to COLLSTD.CLS |
| Lithuanian | L_CP775.CLS to L_CPDOS.CLS  
L_CP1257.CLS to L_CPWIN.CLS  
COLLLT.CLS to COLLSTD.CLS |
| Macedonian | L_CP855.CLS to L_CPDOS.CLS  
L_CP1251.CLS to L_CPWIN.CLS  
COLLCYR.CLS to COLLSTD.CLS |
<table>
<thead>
<tr>
<th>Language</th>
<th>Collation 1</th>
<th>Collation 2</th>
</tr>
</thead>
</table>
| Norwegian              | COLLNORD.CLS to collstd.cls  
                   | COLL21N.CLS to COLL2TO1.CLS |
| Polish                 | L_CP852.CLS to L_CPDOS.CLS  
                   | L_CP1250.CLS to L_CPWIN.CLS  
                   | COLLPOL.CLS to COLLSTD.CLS |
| Romanian               | L_CP852.CLS to L_CPDOS.CLS  
                   | L_CP1250.CLS to L_CPWIN.CLS  
                   | COLLROM.CLS to COLLSTD.CLS |
| Russian                | L_CP866.CLS to L_CPDOS.CLS  
                   | L_CP1251.CLS to L_CPWIN.CLS  
                   | COLLCYR.CLS to COLLSTD.CLS |
| Serbian (Cyrillic)     | L_CP855.CLS to L_CPDOS.CLS  
                   | L_CP1251.CLS to L_CPWIN.CLS  
                   | COLLCYR.CLS to COLLSTD.CLS |
| Serbian (Latin)        | L_CP852.CLS to L_CPDOS.CLS  
                   | L_CP1250.CLS to L_CPWIN.CLS  
                   | COLLEE.CLS to COLLSTD.CLS |
| Simplified Chinese     | L_CPGB.CLS to L_CPDOS.CLS  
                   | L_CPGB.CLS to L_CPWIN.CLS  
                   | COLLGB.CLS to COLLSTD.CLS  
                   | DBCS\LEADBYTE.CLS to NOTES DIRECTORY  
                   | DBCS\HLFPITCH.CLS to NOTES DIRECTORY  
                   | DBCS\FULPITCH.CLS to NOTES DIRECTORY |
| Slovak                 | L_CP852.CLS to L_CPDOS.CLS  
                   | L_CP1250.CLS to L_CPWIN.CLS  
                   | COLLCS.CLS to COLLSTD.CLS  
                   | COLL21CS.CLS to COLL2TO1.CLS |
| Slovene                | L_CP852.CLS to L_CPDOS.CLS  
                   | L_CP1250.CLS to L_CPWIN.CLS  
                   | COLLSC.CLS to COLLSTD.CLS |
| Spanish (Traditional)  | COLL21ES.CLS to COLL2TO1.CLS |
| Swedish                | COLLSWED.CLS to COLLSTD.CLS  
                   | - or -  
                   | select Scandinavian collation option from User Preferences. |
| Traditional Chinese    | L_CPBIG5.CLS to L_CPDOS.CLS  
                   | L_CPBIG5.CLS to L_CPWIN.CLS  
                   | COLLBIG5.CLS to COLLSTD.CLS  
                   | DBCS\LEADBYTE.CLS to NOTES DIRECTORY  
                   | DBCS\HLFPITCH.CLS to NOTES DIRECTORY  
                   | DBCS\FULPITCH.CLS to NOTES DIRECTORY |
| Turkish                | L_CP857.CLS to L_CPDOS.CLS  
                   | L_CP1254.CLS to L_CPWIN.CLS  
                   | COLLTR.CLS to COLLSTD.CLS |
| Ukranian               | L_CP866.CLS to L_CPDOS.CLS  
                   | L_CP1251.CLS to L_CPWIN.CLS  
                   | COLLCYR.CLS to COLLSTD.CLS |

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OS/2

The following tables describe the files you must copy to input and display Albanian, Belorussian, Bulgarian, Catalan, Croatian, Czech, Danish, Dutch, Estonian, Finnish, French, German, Greek, Hungarian, Latvian, Lithuanian, Macedonian, Norwegian, Polish, Romanian, Russian, Serbian (Cyrillic), Serbian (Latin), Slovak, Slovene, Spanish, Turkish, Ukranian, Japanese, Korean, Simplified Chinese, or Traditional Chinese text on North American or International English versions of Notes for OS/2. These files are in the Notes program directory.

**Note:** Exit Notes before copying these files.

<table>
<thead>
<tr>
<th>To input and display text in:</th>
<th>Copy:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belorussian</td>
<td>COLLCYR.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Bulgarian</td>
<td>COLLCYR.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Catalan</td>
<td>COLL21ES.CLS to COLL2TO1.CLS</td>
</tr>
<tr>
<td>Croatian</td>
<td>COLLHR.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Czech</td>
<td>COLLCS.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Danish</td>
<td>COLLNord.cls to collstd.cls</td>
</tr>
<tr>
<td>Dutch</td>
<td>COLL12NL.CLS to COLL1TO2.CLS</td>
</tr>
<tr>
<td>Estonian</td>
<td>COLLTT.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Finnish</td>
<td>COLLF.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>French</td>
<td>COLL12FR.CLS to COLL1TO2.CLS</td>
</tr>
<tr>
<td>German</td>
<td>COLL12DE.CLS to COLL1TO2.CLS</td>
</tr>
<tr>
<td>Greek</td>
<td>COLLLEL.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Hungarian</td>
<td>COLLHU.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Japanese</td>
<td>L_CP932.CLS to L_CP942.CLS</td>
</tr>
<tr>
<td>Korean</td>
<td>L_CPKS.CLS to L_CP949.CLS</td>
</tr>
<tr>
<td>Latvian</td>
<td>COLLTT.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Lithuanian</td>
<td>COLLTT.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Macedonian</td>
<td>COLLCYR.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Norwegian</td>
<td>COLLNORD.CLS to collstd.cls</td>
</tr>
<tr>
<td></td>
<td>COLL21N.CLS to COLL2TO1.CLS</td>
</tr>
<tr>
<td>Language</td>
<td>Copy:</td>
</tr>
<tr>
<td>------------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>Polish</td>
<td>COLLPO.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Romanian</td>
<td>COLLRO.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Russian</td>
<td>COLLCYR.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Serbian (Cyrillic)</td>
<td>COLLCYR.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Serbian (Latin)</td>
<td>COLLEE.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Simplified Chinese</td>
<td>L_CPGB.CLS to L_CP1381.CLS</td>
</tr>
<tr>
<td></td>
<td>COLLGB.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td></td>
<td>DBCS\LEADBYTE.CLS to NOTES DIRECTORY</td>
</tr>
<tr>
<td></td>
<td>DBCS\HLFPITCH.CLS to NOTES DIRECTORY</td>
</tr>
<tr>
<td></td>
<td>DBCS\FULPITCH.CLS to NOTES DIRECTORY</td>
</tr>
<tr>
<td>Slovak</td>
<td>COLLCS.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td></td>
<td>COLL21CS.CLS to COLL2TO1.CLS</td>
</tr>
<tr>
<td>Slovene</td>
<td>COLLSC.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Spanish (Traditional)</td>
<td>COLL21ES.CLS to COLL2TO1.CLS</td>
</tr>
<tr>
<td>Swedish</td>
<td>COLLSWED.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td></td>
<td>- or -</td>
</tr>
<tr>
<td></td>
<td>select Scandinavian collation option from User Preferences.</td>
</tr>
<tr>
<td>Traditional Chinese</td>
<td>L_CPBIG5.CLS to L_CP950.CLS</td>
</tr>
<tr>
<td></td>
<td>COLLBIG5.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td></td>
<td>DBCS\LEADBYTE.CLS to NOTES DIRECTORY</td>
</tr>
<tr>
<td></td>
<td>DBCS\HLFPITCH.CLS to NOTES DIRECTORY</td>
</tr>
<tr>
<td></td>
<td>DBCS\FULPITCH.CLS to NOTES DIRECTORY</td>
</tr>
<tr>
<td>Turkish</td>
<td>COLLTR.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>Ukranian</td>
<td>COLLCYR.CLS to COLLSTD.CLS</td>
</tr>
</tbody>
</table>

**NLM**

The following tables describe the files you must copy to input and display Brazilian Portuguese, Croatian, Czech, Danish, Dutch, Finnish, French, German, Hungarian, Norwegian, Polish, Russian, Slovak, Slovene, Spanish and Turkish text on North American or International English versions of Notes for NLM. These files are in the Notes program directory.

**Note:** Exit Notes before copying these files.

<table>
<thead>
<tr>
<th>To input and display text in:</th>
<th>Copy:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazilian Portuguese</td>
<td>L_CP850.CLS to L_CPNLML.CLS</td>
</tr>
<tr>
<td>Croatian</td>
<td>L_CP852.CLS to L_CPNLML.CLS</td>
</tr>
<tr>
<td></td>
<td>COLLSC.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td></td>
<td>COLL21HR.CLS to COLL2TO1.CLS</td>
</tr>
<tr>
<td>Czech</td>
<td>L_CP852.CLS to L_CPNLML.CLS</td>
</tr>
<tr>
<td></td>
<td>COLLCS.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td></td>
<td>COLL21CS.CLS to COLL2TO1.CLS</td>
</tr>
<tr>
<td>Danish</td>
<td>L_CP850.CLS to L_CPNLML.CLS</td>
</tr>
<tr>
<td></td>
<td>Collnord.cls to collstd.cls</td>
</tr>
</tbody>
</table>
### Dutch

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dutch</td>
</tr>
<tr>
<td>L_CP850.CLS TO L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLL12NL.CLS to COLL1TO2.CLS</td>
</tr>
</tbody>
</table>

### Finnish

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finnish</td>
</tr>
<tr>
<td>L_CP850.CLS TO L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLLF.CLS to COLLSTD.CLS</td>
</tr>
</tbody>
</table>

### French

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>French</td>
</tr>
<tr>
<td>L_CP850.CLS TO L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLL12FR.CLS to COLL1TO2.CLS</td>
</tr>
</tbody>
</table>

### German

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>German</td>
</tr>
<tr>
<td>L_CP850.CLS TO L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLL12DE.CLS to COLL1TO2.CLS</td>
</tr>
</tbody>
</table>

### Hungarian

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hungarian</td>
</tr>
<tr>
<td>L_CP852.CLS to L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLLHU.CLS to COLLSTD.CLS</td>
</tr>
</tbody>
</table>

### Norwegian

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Norwegian</td>
</tr>
<tr>
<td>L_CP850.CLS TO L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLLNORD.CLS to collstd.cls</td>
</tr>
<tr>
<td>COLL21N.CLS to COLL2TO1.CLS</td>
</tr>
</tbody>
</table>

### Polish

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polish</td>
</tr>
<tr>
<td>L_CP852.CLS to L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLLPO.CLS to COLLSTD.CLS</td>
</tr>
</tbody>
</table>

### Russian

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian</td>
</tr>
<tr>
<td>L_CP866.CLS to L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLLCYR.CLS to COLLSTD.CLS</td>
</tr>
</tbody>
</table>

### Slovak

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slovak</td>
</tr>
<tr>
<td>L_CP852.CLS to L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLLCS.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>COLL21CS.CLS to COLL2TO1.CLS</td>
</tr>
</tbody>
</table>

### Slovene

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slovene</td>
</tr>
<tr>
<td>L_CP852.CLS to L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLLSC.CLS to COLLSTD.CLS</td>
</tr>
</tbody>
</table>

### Spanish (Traditional)

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanish (Traditional)</td>
</tr>
<tr>
<td>L_CP850.CLS TO L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLL21ES.CLS to COLL2TO1.CLS</td>
</tr>
</tbody>
</table>

### Swedish

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swedish</td>
</tr>
<tr>
<td>COLLSWED.CLS to COLLSTD.CLS</td>
</tr>
<tr>
<td>- or -</td>
</tr>
<tr>
<td>select Scandinavian collation option from User Preferences.</td>
</tr>
</tbody>
</table>

### Turkish

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turkish</td>
</tr>
<tr>
<td>L_CP857.CLS to L_CPNLM.CLS</td>
</tr>
<tr>
<td>COLLTR.CLS to COLLSTD.CLS</td>
</tr>
</tbody>
</table>

---

**Client**

**Russian Full Text Search using wildcards**

Performing full text search with Russian characters using wildcards with not always yield the correct result.
Scandinavian Sorting for Norwegian & Danish

With Scandinavian Collation enabled on an international English build setup for Danish there are two possible ways that the characters "Aa" can be sorted.

1. "Aa" Sorted as an Accented character appearing after the standard A-Z and before the accented Characters. This sorting is achieved by copying COLL21N.CLS to COLL2TO1.CLS.

2. "Aa" sorted as 2 separate characters, for example, AA, AB, B,C , Å.

If Notes is not sorting as above, delete the file COLL2TO1.cls from your NOTES directory.

Note: Danish sorting is achieved on an international English build by copying COLLNORD.CLS to COLLSCAN.CLS.

Time Separator and Date Separator cannot be identical

The Time Separator and Date Separator cannot be identical. If they are identical, Calendaring and Scheduling errors occur. The German OS/2 Operating System defaults with an identical Time Separator and Date Separator. All Finnish Operating Systems default with an identical Time Separator and Date Separator.

Turkish comparison and sorting

Comparison (ignoring accent and casing)

When searching for i overdot or i dotless, the search finds all i's with any type of accent, as follows:

- lowercase i overdot and i dotless finds all i's
- Uppercase I dotless finds all I's
- Uppercase I overdot finds I overdot

Sorting

The following is the collation sequence for the i's:

- lowercase i overdot
- lowercase i dotless
- Uppercase I dotless
- Uppercase I overdot
Client, Server

Icelandic Sorting issue

The ordinal characters, "ª" (FEMININE ORDINAL INDICATOR) and "º" (MASCULINE ORDINAL INDICATOR), do not sort in their correct position. Where "ª" (FEMININE ORDINAL INDICATOR) is currently sorting after Latin Letter A with Acute, it should be sorting after Latin Letter A. Where "º" (MASCULINE ORDINAL INDICATOR) is currently sorting after Latin Letter O with Acute, it should be sorting after Latin Letter O.

And also, "Œ" (Latin OE ligature), which isn't specific to the Icelandic language script, is currently sorting after "Æ" (Latin AE ligature) when it should be sorting after Latin Letter O with tilde.

Filters

Client

Updates to import filters

WordPerfect files with a .WPD extension can now be imported into Notes RTF using the option File->Import. This enhancement applies to Windows 32-bit platforms only.

Also, Notes users can now import WordPro 96 and WordPro 97 files into Notes RTF. This enhancement is only available for the 32-bit Windows platforms.

Java

Client, Designer, Server

Using Java

Java Runtime Environment (JRE)

Notes and Domino includes its own version of the Java VM, or Java Runtime Environment (JRE) on AIX, Solaris Sparc, Solaris x86, Windows NT, and OS/2. By doing this, Lotus is able to fix problems in the JRE up until Notes and Domino ship; these fixes are then submitted back to IBM Hursley for incorporation into their releases of Java. Due to licensing, Lotus is unable to ship the HP-UX version of Java, which means that it is up to the user to obtain Java from HP-UX and then incorporate it into the Notes and Domino environment. To make this process easier, Notes and Domino provides a tool called "notesjre" located in /opt/lotus/bin that imports the JRE elements from a JDK/JRE package into the Notes installation directory. For more information on notesjre, see the section on "Replacing the Java VM (JRE) in Notes".

Lotus certifies that Notes and Domino run with only the JRE within the Notes and Domino installation. Due to the practice of pushing fixes to a third-party source, for example, IBM Hursley or Sun, Lotus cannot state that a later version than what we ship will contain our fixes. For example, if Notes includes JRE 1.1.4 for AIX, Lotus cannot guarantee that the AIX JRE 1.1.6 will contain our fixes. Use caution when replacing the JRE within Notes and Domino, and be aware of the dangers such as crash or segv. If you want to change the Java VM/JRE in Notes and Domino, use the notesjre tool.
Stand-alone applications
Due to a runtime linker problem in the JVM supplied by HP, references to Notes classes cannot be resolved when Java applications are run in stand-alone mode. Therefore the use of stand-alone Java applications will not be supported under HP-UX until a revision of the JVM which fixes this problem is released by HP.

Replacing the Java VM (JRE) in Notes
You can use the notesjre tool to replace the Notes and Domino JRE with another JRE. The standard use is to run the tool with no arguments; this copies the JRE from the default location on each given system (AIX is /usr/jdk_base, Solaris is /opt/java, HP-UX is /opt/java) to the Notes installation directory.

If your JRE is in another location, to make symbolic links, or to restore the original Notes JRE, then display the usage options for notesjre by running it using the syntax "/opt/lotus/bin/notesjre -h". You may receive various warnings about missing properties files, which you can ignore. You may also receive the message that the ODBC library or the "jitc" library is not found; this happens if the JRE has no support for these libraries.

If you get a warning that libjava, libawt, or libzip are not found, then there is a problem with the format of the JRE directory, the JRE is bad, or you have run into a JRE that notesjre is unable to handle.

Client, Designer
Java applet persistence - serialization and externalization
A Java applet can either use serialization or externalization to provide persistence. Serialized/externalized data is stored in Notes documents as an attachment to that document (Notes 4.6.2 supports either option).

Any applet can be serialized because applets are derived from the Component class and the Component class implements a serialized interface. The down side of serialization, which resembles a memory dump, is that it writes out more data than you need for some purposes -- every variable, every class, and all header information. Given this you might want to use externalization instead. With externalization, the applet writes out only the data in which it is interested.

There are two parameters used to tell Notes to read/write serialized data. Both parameters can (and usually do) have the same value:

- **Object** is the standard HTML object parameter. The named attachment is passed to the Java VM and the VM loads the serialized object. The serialized object must exist or the load fails.

- **WriteObject** is a Notes extension. When a Notes save event occurs, Notes calls the serialized writeObject method of the applet. This results in a serialized object being written out as an attachment. The user cannot see the attachment, it is hidden.

  Example HTML code:

  `<PARAM NAME="object" VALUE="data">
  <PARAM NAME="writeobject" VALUE="data">

For an applet to have Notes use the externalized interface, the applet must implement the Java Externalization interface. If you tell Notes to externalize an applet and these methods have not been written in the applet, nothing happens in Notes. The Lotus eSuite (DevPack) applets implement externalization. For example, externalization allows the eSuite applets to save their data.
There are two parameters used to tell Notes to read/write externalized data. Both parameters can and usually do have the same value:

- **ReadExternaldata** is a Notes extension. When the applet finishes initializing itself, Notes calls the readExternal method. The method is passed a stream that was created by Notes using the filename passed in.

- **WriteExternalData** is a Notes extension. When a Notes save event occurs, Notes calls the writeExternal method of the Applet. This results in an externalized object being written out as an attachment to the document. The writeExternal method is passed a Notes created stream that is used by the method to write the attachment. As noted previously, the user cannot see the attachment, it is hidden.

Example HTML code:

```html
<PARAM NAME="readexternaldata" VALUE="data">
<PARAM NAME="writeexternaldata" VALUE="data">
```

**Designer**  
**Java applet persistence**  
Some applets allow the user to enter data. Notes 4.61 (and later) provides support for applet persistence, such as saving the data entered in an applet. This persistent data is only saved when the Notes document/form is closed or saved. Changes made in the applet do not cause the document/form to be marked as having been edited so make at least one edit before doing the close or save. Various actions in a Notes document, such as resizing or editing applet parameters, will result in the applet being re-initialized to the state it was in when the document/form was originally opened.

The following rules apply for an applet that implements persistence and is embedded in a subform:

- When a form contains a subform, the data from the subform takes precedence over the data in the form, so that you can modify the subform and all of the forms using that subform pick up the change.
- Data from the document, on the other hand, takes precedence over the data stored in a form or subform.

**Designer, Server**  
**Java servlets and agents on OS/2 SMP machines**  
Due to a bug in the Java Virtual Machine (JVM) for OS/2 provided by IBM, running Java servlets and agents on OS/2 SMP machines can cause the server to hang. In most cases, the server continues to respond to requests that do not need to run Java code, however, the server can occasionally stop responding to all requests.

Lotus will provide an update to the JVM code shipped with Domino as soon as the fix for this problem is available from IBM.
New notes.ini variables to control Java functionality

Starting with Release 4.6.3, some new options have been incorporated into Domino and Notes to grant customers more control over the Java Virtual Machine (JVM).

Please note that the Just In Time (JIT) functionality is always turned off by default, regardless of what the base underlying JRE does in standalone environments. To turn the default JIT back on, add the following variable to the NOTES.INI file:

JavaEnableJIT=1

Additional new NOTES.INI parameters and their explanations are:

JavaVerbose=1  Turns on the verbose setting of the JVM
JavaVerboseGC=1 Turns on extra messages from the GC mechanism in the JVM
JavaNoClassGC=1 Turns off gc of classes (ie. to protect static fields)

Notes and Domino Java support for the year 2000 (HP-UX issues)

The Lotus Notes Client provides the ability to run Java applets. The Lotus Domino Server also provides the ability to use the Java programming language to build back end agents. In order to provide these features, Lotus Notes and Domino on all platforms but HP-UX are distributed with a module licensed from Sun Microsystems, Inc. called the Java Runtime Environment (JRE).

Sun Microsystems' JRE releases 1.1.4 and 1.1.5 featured in previous releases of Lotus Notes and Domino have been declared year 2000 ready by Sun Microsystems. However, recent testing by IBM and Lotus has revealed these releases of Sun Microsystems' JRE suffer from a minor Year 2000 date related issue.

If you use SimpleDateFormat with the "MM/dd/yy" or "dd/MM/yy" type pattern for a date in the year 2000 and create a date object with format.parse( "02/29/00" ) or format.parse( "29/02/00" ), you get an object whose date is "03/01/00" or "01/03/00" (respectively) returned. This means, in effect, the JRE cannot detect February 29, 2000 as a valid date and returns March 1, 2000 as the result. This also occurs with DateFormat using the 'SHORT' format style. However, date objects created with the more complete format of "MM/dd/yyyy" do not exhibit this problem.

This issue appears to have been resolved recently by Sun Microsystems in their latest version of the JRE: release 1.1.6. Lotus has upgraded to this version of the JRE in Notes and Domino Release 4.6.3 for all platforms excepting HP-UX. Customers using Domino on the HP-UX platform and wanting to use the Java features must secure a JRE from Hewlett Packard.

On the HP-UX platform, Lotus Notes and Domino do not include this JRE, but instead rely on the JRE provided by Hewlett Packard with the operating system. It is also important to note that, at the release of Domino 4.6.3, HP's JRE 1.1.6 for the HP-UX platform is not yet supported by Lotus for use with the Domino Server. However, the JRE 1.1.2 for HP-UX is currently supported for use with Domino in Release 4.6.3. Also, please note that Sun does not consider the 1.1.2 version of the JRE to be year 2000 ready.
Lotus BeanMachine

Using BeanMachine with Notes Designer
Lotus Notes Designer for Domino is the developer’s version of Notes -- with everything you need to build and maintain secure and collaborative Net applications on a Domino server. Applications you create with Notes Designer for Domino can easily be made accessible to Web browsers and Notes clients. Lotus BeanMachine for Java is a visual Java authoring tool that creates Java applets quickly and easily. Notes Designer can embed a Java applet into a form or document and can push dynamic information to that applet. This document describes:

- How to use the sample BeanMachine applet called parameters.app.
- How to pass information from Notes into an applet created with Lotus BeanMachine.
- How to add the ability to accept parameters to a BeanMachine applet.

Using the BeanMachine Sample, parameters.app
BeanMachine lets the designer create Java applets without programming, but if you need to, as in this example, you can write your own Java code (as you will see below, you do not even need to know Java to do this). In the 'samples' scripting directory within the BeanMachine installation, a sample applet is provided called parameters.app. This Java applet demonstrates how you can set up your BeanMachine applet to accept information from an HTML document or Notes document via HTML parameters. In the applet tag, these take the form of name and value pairs. In the example below, the name of the parameter is "message" and its value is the text in quotes.

```html
<title>parameters</title>
<applet code="parameters.class" width=300 height=30
archive="parameters.zip" >
   <param name="message" VALUE="This message is passed in from the HTML file">
   <param name="speed" VALUE="5">
   <param name="cabbase" VALUE="parameters.cab">
You need a Java-enabled web browser!
</applet>
```

The Ticker Tape part in parameters.app is a simple scrolling text window. You set its properties via the Details window in BeanMachine. BeanMachine exposes properties for the background color, text color, speed, text, and others. With the parameters example, you can control properties for the text and speed with the HTML parameters.

The Parameters applet receives its text from HTML when the applet loads via the getHTMLParameters Java method included in parameters.app. This method is accessed by opening the Java window inside BeanMachine, once parameters.app is loaded. Both the code and an explanation are presented in the table below.

<table>
<thead>
<tr>
<th>Line</th>
<th>Code</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>public Object getHTMLParameters ()</td>
<td>Create a java method called getHTMLParameters</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and make it public</td>
</tr>
<tr>
<td>2</td>
<td>{</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>int s;</td>
<td>define s as an integer</td>
</tr>
<tr>
<td>4</td>
<td>try</td>
<td></td>
</tr>
</tbody>
</table>
The variable "speed" is provided to the applet via the getParameter method (a standard Java class). It's first converted to an integer value and then set to the variable s.

If a non-integer is passed catch the error and continue

Give s a default value if there was an error.

Set the text property of the part "TickerTape" from the parameter "Message"

Set the speed property of the part "TickerTape" from the parameter "s"

The method is complete.

The key pieces of this code are the setText, and setCharactersPerSecond Java methods. These are defined in the Ticker Tape part included with BeanMachine. getParameter is part of the standard Java classes and its purpose is to retrieve applet parameters specified from an outside source (HTML or Notes). Other properties for Ticker Tape controllable by a parameter include font, foreground color, and background color. For more information on how to access other properties for each BeanMachine part see Writing your own code in the Java Window in the BeanMachine on-line reference documentation.

Passing Applet Parameters using Notes Designer for Domino
Notes Designer for Domino gives the designer an easy way to include a Java applet in a Notes form or document. To add an applet to your form or document, simply choose Create-Java Applet. You can import an applet into a Notes form, or you can link to the applet if it already exists on a web server.

Create Java Applet Dialog Box.
If you are importing the applet, make sure you import the associated java files with the main applet. For BeanMachine applets, you need the base class file, the archive files (.zip and .cab), plus any resources that you may have included in the applet, such as images or audio. For example, these are the files you need for the parameters applet to work correctly:

- parameters.class
- parameters.zip
- parameters.cab

(FYI - the .zip files encapsulate the Java files needed for execution by both Netscape Navigator and the Notes client. The .cab files are the same files for use by Internet Explorer. If you are using another browser, then you may need to include all of the individual class files that BeanMachine publishes.)

**Locate Java Applet files dialog box**

![Locate Java Applet Files dialog box](image)

Notes Designer loads the applet when you are done. The names for the parameters have to be added and need to be the same names in the `getHTMLparameters` Java code. For example, the names of the parameters in the java code were message and speed, so those would be the names that you would add in the Applet Parameters event in Notes Designer. The table below illustrates the correlation between the parameter names in the HTML page and the Java code you write.

<table>
<thead>
<tr>
<th>Parameter name</th>
<th><code>getHTMLparameter</code> method</th>
</tr>
</thead>
<tbody>
<tr>
<td>message</td>
<td><code>Ticker_Tape1.setText(getParameter(&quot;message&quot;));</code></td>
</tr>
<tr>
<td>speed</td>
<td><code>s = Integer.parseInt(getParameter(&quot;speed&quot;));</code></td>
</tr>
</tbody>
</table>
Examples of using parameters with Notes

The parameter values can be static or result from a Notes formula. In the example below, in the parameter value window, the @Today and @Now functions are used and the date and time are scrolled in the TickerTape window. Each time you change the applet parameter values, Notes reloads the applet with the new values.

Using formulas for parameter values.

![Image of parameter value window]

Displaying information from a view:

The formula example @Implode(@dbcolumn("","";"Headline";1);" ") is doing a lookup on all documents in a view called "Headline" in a local database. The@Implode concatenates the list elements together and the addition of the spaces separates the headlines in the Ticker Tape window.

This method provides the developer with an easy way of displaying "What's New" or "News of the Day" by reading the contents of a column in a view and displaying them actively in the Java window.
Passing the value of a View column to the applet.

Creating a BeanMachine Applet that Accepts Parameters

You can create a BeanMachine applet that accepts parameters very easily. It uses the same principles that we explored in the sample parameters.app above. In order to learn this technique, follow along as we add a parameter to a simple nervous text applet.

1. Create a new BeanMachine applet and add the Nervous Text part to it.
2. Open the Java window (Window-Java).
3. Click on the new method icon. Change the default text, "newmethod", to "getHTMLparams".
4. Place your cursor after the opening brace and press Enter to add a new line. Click on the Paste Part icon. Select Nervous Text1 and click OK. BeanMachine pastes the name of the part into the Java window.
5. While the text is still selected, click on the Paste Property icon. This command displays a list of all the available properties. Click on "Set text" and click OK. BeanMachine pastes in the correct method to set the text property and highlights the argument.
6. Use the following command for the argument: getParameter("text"). Note: Java is case-sensitive, type in the command exactly as above.
7. Click the Save icon and close the Java window.

You've just created a Java method (and without knowing Java!). Here's what your code should look like:

```java
public Object getHTMLParams ()
{
    Ticker_Tape1.setText(getParameter("message"));
    return null;
}
```
Now, we need to connect your new method to the applet, so that when the applet starts, the method runs. Follow these steps:

1. Click on the white space in the Composer window to select the applet.
2. In the Details window, click on the Connections tab. The completed Connections window should look like this:

<table>
<thead>
<tr>
<th>When</th>
<th>Part</th>
<th>Do</th>
</tr>
</thead>
<tbody>
<tr>
<td>Started</td>
<td>applet1</td>
<td>getHMTLParams</td>
</tr>
</tbody>
</table>

Finally, we need to add some default text, in case the parameter isn't specified.

1. With the applet still selected, click on the Properties tab of the Details window. Click on the parameters property and bring up the dialog box.
2. Fill out the dialog box by following the table below:

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>text</td>
<td>Lotus Beanmachine for Java</td>
</tr>
</tbody>
</table>

Now you can publish your applet as you normally would in BeanMachine and add it to your Domino application. The applet will look for a parameter named text and load its value into the Nervous Text part.

**Conclusion**

This document has shown you how to integrate Lotus BeanMachine for Java applets into your Notes Designer for Domino applications. You've seen how the parameters.app sample works, how to add a Java applet to a Notes document or form and pass it parameters, and how to create your own BeanMachine applets so that they may accept parameter values. With these two products, you can now deliver more interesting applications by combining multimedia Java applets with dynamic Notes information.
Mail Server

Configuring the Internet Domain Suffix for the IMAP and POP3 servers
When you use an IMAP or POP3 client to retrieve messages delivered to you through the Internet, the Domino server appends the fully-qualified domain name (or domain name only) of your server to form a standard Internet mail address. For example, if a user's mail address in Notes is "Jane Smith" and Jane's Domino server is deployed on a machine named "sales.acme.com," the email address is represented as "Jane_Smith@sales.acme.com" in the Internet mail client. This makes it possible to reply to the sender without further typing of the Internet address.

The system administrator can configure a server configuration variable to control the value of the domain name part of the Internet mail address, also referred to as the Internet domain suffix. For IMAP and NNTP, set the "InternetDomain" variable to be the fully-qualified domain name (or domain name only). For example, "InternetDomain=sales.acme.com." For POP3, the variable is called "POP3Domain."

If the values for these variables are not supplied, the server checks the Global Domain documents in the Public Address Book and determines if there is a Global Domain document that is selected as the default global domain. If a default global domain is found, the first name listed in the Internet domain suffix field is used to form the Internet address.

Note: If only one Global Domain document exists, the first name listed in the Internet domain suffix field is used.) If the fully-qualified domain name is not specified in the Global Domain document, the server checks the TCP stack for the host machine's domain suffix (domain name only, host not included). Finally, if no domain name can be determined, the server supplies the value "NoDomain."

Sending Mail and IMAP
Like POP3, the IMAP protocol is used only for working with mail in the users mailboxes. It is not used for sending mail. IMAP mail client software uses SMTP to send mail. To send mail from an IMAP client, you need to have an SMTP server, such as the Lotus SMTP MTA, available on the network.
### Viewers

**Viewers supported in Notes 4.6.5**

<table>
<thead>
<tr>
<th>File Type</th>
<th>32-bit Windows</th>
<th>AIX</th>
<th>Solaris Sparc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ami Pro 3.x (.SAM)</td>
<td>n</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>Lotus WordPro 96/97 (.LWP)</td>
<td>n</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>Microsoft Word for Windows 6.0, 7.0, 97 (.DOC)</td>
<td>n</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>Microsoft Word for Macintosh 2.0, 3.0</td>
<td>n</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
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<td>WordPerfect 8</td>
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<td>JPEG file (.JPEG, .JPG)</td>
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<td>n</td>
</tr>
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</table>
Lotus Freelance (.PRE, .PRZ) n n n
Lotus Freelance for OS/2 (.PRS) n o o
Lotus PIC (.PIC) n n n
Microsoft PowerPoint 4.x, 7.0, 97 (.PPT) n n n
Paintbrush/DCX (multi-page PCX) (.PCX) n n n
PICT and PICT2 Graphics (.PCT) n n n
Tagged Image File Format (.TIF) n n n
Windows Metafile Graphic (.WMF) n n n
WordPerfect Graphics (.WPG) n n n

New in this release:
- 32-bit Windows only: Lotus 1-2-3 R9 viewer
- AIX only: Users can now print a file from the viewer window.

Notes:
Windows NT for Alpha chip sets Solaris Intel Edition, and HP-UX version 11 do not include support for viewers at this time. Also, if you attempt to view any of the file types that are designated as "unsupported" in the previous table, Notes can terminate abruptly.

The AIX version 4.6.4 uses an updated viewer release from Inso Corporation. The new version of the viewers contains many improvements and provides some critical fixes. The implementation of the viewer update may contain issues which may not have been present in earlier versions. Below is a list of known issue areas at this time:
- Inverse printing issue with some graphic formats, for example, some Freelance and PowerPoint documents appear fine in the viewer but print inversely.
- Problems with the display of graphics, for example, charts, in Lotus and Excel spreadsheets. (Lotus SPR #s: PLAE3PEN9S, PLAE3PENJP, PLAE3PEPFG, PLAE3PEPJW, PLAE3PFMLS, PLAE3U9MLU, PLAE3PEPUZ, PLAE3PFLM9, PLAE3PFLP7)
- Some extended ASCII characters do not appear correctly.

The following issues are fixed with the updated viewer release.
- AIX only: Double clicking on the control in the upper left-hand corner to close the viewer window causes Notes to hourglass with no recovery.
- AIX only: Choosing File/Close to close the viewer window may cause Notes to hourglass with no recovery.
- AIX only: Some AmiPro documents may not display in the viewer.
Miscellaneous:

- If a user views a file and the format is not supported, but the associated (and Windows-registered) application is installed on the PC, Notes launches the file in the application.
- If you view a spreadsheet file, you must resize the height of the window to display the button that enables you to view additional pages of the spreadsheet. For example, a spreadsheet document can contain graphics. This button displays a pop-up menu from which you can select other pages in the document.
- Limitation of the spreadsheet viewers: The spreadsheet viewers show only cells that actually contain text, truncating the rest.
- Limitation of the image viewers: Images can be represented as empty boxes in text-type files. The viewers do not support the embedded image format.
- OLE embedded images cannot be launched from the viewer.
- Occasionally, images are too large and may not appear in the viewer window. Select Size, and choose Fit to Window or Show Full Screen to display the images.
- Freelance views are shown by page name, not page number. Because of this, pages look out of sequence; actually, it is the arrangement of the slides in the original presentation.
- Limitation to the PICT viewer: Users cannot select anything with the mouse in the PICT viewer. Therefore, text cannot be copied or partially printed.
- Limitation of the image viewer: The viewer does not show any PowerPoint autolayout components (that is, tables, organization charts, charts, and images).
- The viewers do not support colored text at this time.
- If you view a .ZIP file that contains more than one subdirectory, resize the column heading by clicking on the grid line to the right of that heading, and then resize accordingly. If this is not done, output overlaps if it does not fit within the column boundaries.
- Archive viewer only: The View This File option in the viewer is not implemented at this time.
- HTML viewer: Graphics display as gray "envelopes," even in Preview mode. If the HTML file references graphic files externally and they are in the same directory as the HTML file, the graphics are displayed.
- Spreadsheet viewers: Wide tables or text may truncate on output. To prevent this, change the orientation to Landscape prior to printing the file.
Workstation Upgrade

Client

About upgrading workstations
Depending on your organization, the system administration group might install and set up end-user workstations. If end users set up their own workstations, you need to tell them the location of the Install program.

Notes does not overwrite existing DESKTOP.DSK, NAMES.NSF, PERWEB.NSF, and NOTES.INI files when you install and set up Notes 4.6. Because Notes recognizes these existing files, the user-specified settings are preserved, including icons added to the workspace, private mailing lists, the location of the user ID, and Connection documents. Notes does, however, add settings required for Release 4.6 to the existing NOTES.INI file.

When you start the workstation for the first time after upgrading, Notes automatically upgrades the design or creates the following databases:

- Personal Address Book (NAMES.NSF). Notes replaces the current design template with the new Personal Address Book template (PERNAMES.NTF). The design template for the Personal Address Book has changed for Release 4.6. Notes replaces the design of all Personal Address Books listed in File - Tools - User Preferences, Local address books. If users customized their Personal Address Books, make sure that they back up their customizations before you upgrade their workstations.

- Outgoing Mail (MAIL.BOX). If the Outgoing Mail database exists in the Notes data directory, Notes refreshes the database with the design template (MAILBOX.NTF). Release 4.6 does not use a new design template name for Outgoing Mail.

- Personal Web Navigator database (PERWEB.NSF, by default). If the Personal Web Navigator database exists in the Notes data directory, Notes replaces the design of the database with the new Personal Web Navigator template (PERWEB46.NTF). Notes uses the "Web Navigator database" field in the current Location document to locate the Personal Web Navigator database.

- Notes Log (LOG.NSF). If the Notes Log database exists in the Notes data directory, Notes refreshes the database with the design template (LOG.NTF). Release 4.6 does not use a new design template name for the Notes Log.

- Personal Journal (JOURNAL.NSF). If you created a Personal Journal named JOURNAL.NSF and this file resides in your Notes data directory, Notes refreshes the design of the database with JOURNAL4.NTF. If JOURNAL.NSF does not exist in the Notes data directory, Notes creates a new Personal Journal automatically during setup.

- Favorites (FAVORITE.NSF). Notes creates a portfolio during setup called Favorites and adds your mail, Personal Journal, Personal Address Books, and Personal Web Navigator database to it. Notes uses the settings specified with File - Tools - User Preferences to locate the Personal Address Books and uses the "Web Navigator database" and "Mail server" fields in the current Location document to locate the Personal Web Navigator database and mail database.

For more information on the Favorites database, see online Help (HELP4.NSF).

If you install Notes 4.6 in the same directories as Notes 3.x, 4, 4.1, or 4.5, you do not have to specify any information when you start the workstation for the first time after upgrading. All changes occur automatically.
Notes does not automatically upgrade the user's mail database to the Notes 4.6 mail template. If you want Notes to upgrade workstations and mail databases at the same time, you can use the form provided in the Public Address Book to mail a document to users that automates the upgrade.

**Client, Server**

**About default workstation security**

Before upgrading workstations, you may want to set the Administration Execution Control List (ECL) in the Public Address Book. The Administration ECL sets the default security on the workstation when you start the workstation for the first time after upgrading. Workstation security defines which group's applications can execute on a workstation. If a group is not specified in the ECL for a workstation, then Notes warns the user when an application created by the group attempts to run on the workstation.

For information on setting the Administration ECL, see Chapter 2 in *Getting Started with Domino*.

**Client**

**Upgrading workstations**

1. Ensure you have the *Lotus Notes Install Guide*.

2. Make a backup copy of the following files: NOTES.INI, DESKTOP.DSK, NAMES.NSF, the user's ID, any custom templates (.NTF), any local databases (.NSF), and any local database directory links (.DIR).

3. (Optional) Edit the Administration Execution Control List.
   For more information, see Chapter 2 in the *Getting Started with Domino* Guide.

4. Install the Notes Release 4.6 workstation program in the same directories as the Release 3.x, 4, 4.1, or 4.5 files.
   For more information, see the *Lotus Notes Install Guide*.

5. Start the Notes workstation.

6. Click OK when Notes completes the setup. If you installed Release 4.6 in the same directories as Release 3.x, 4, 4.1, or 4.5, you do not have to specify any information. All changes occur automatically.

7. If you are upgrading from Release 3.x and want users to be able to add and delete workspace tabs and reduce the size of their DESKTOP.DSK file, from the workspace choose Edit - Properties, click , and then click Compact.

**Client**

**Details: Upgrading workstations**

The Install program automatically updates the NOTES.INI file and does not write over the user's DESKTOP.DSK file. The Install program updates the NOTES.INI file even if the file exists on a network drive, provided the network drive exists in the user's path and the user has write access to the files.

Notes uses the settings in the current Location to locate the Personal Web Navigator database and adds it to the Favorites database during setup. If you are using the Personal Web Navigator on the workstation, make sure you set the current Location to a Location document that contains a file name in the "Web Navigator database" field.
If you compact the DESKTOP.DSK file, Notes changes the file format so you can perform Release 4.6 tasks. After you compact the DESKTOP.DSK file, you cannot use it on a Release 3.x workstation. You do not have to change the file format if you are upgrading from Release 4, 4.1, or 4.5, since you completed this step when you installed Release 4, 4.1, or 4.5.

When you upgrade a workstation that uses SPX, Notes automatically selects Automatic configuration, which enables NetWare Directory Services (NDS) and Bindery Services. If you upgrade a workstation that uses SPX and the workstation does not use NDS, select File - Tools - User Preferences, select Ports, select SPX options, select Advanced configuration, and select Bindery Services to disable NDS. Otherwise, Notes may display warnings that are applicable only to NDS.

Client, Server

**About using Release 4.x with Release 3.x**

Notes Release 4.x is designed to work with Release 3.x and 4.x servers and workstations.

- Make sure mail servers are upgraded to Release 4.5 before upgrading mail databases to the Release 4.6 mail template; otherwise, some mail features will not work as you expect.

- Release 3.x, 4, 4.1, and 4.5 users who open Release 4.6 databases that use new features cannot use the features. In general, if you add Release 4.6 features to a database that Release 3.x, 4, 4.1, or 4.5 users need to access, test these features to make sure they work properly for users of different releases.

- Do not use a Release 4.x workstation to hide the formulas in a database on a Release 3.x server. If you do so, neither a Release 4.x nor a Release 3.x workstation can open the database because the Release 3.x server cannot interpret the formula.

- Do not use Release 4.5 or 4.6 @functions in a view formula and then replicate the database to a Release 3.x, 4, or 4.1 server. The Release 3.x, 4, or 4.1 server cannot interpret the formula and, therefore, cannot display the view.

Client, Server

**About the new database file format**

The database file format has changed from the Release 3.x file format databases to accommodate new Release 4.x features. If you are upgrading from 4, 4.1, or 4.5, the database file format in Release 4.6 is the same as the database file format in 4, 4.1, and 4.5.

Release 4.6 is designed to recognize and resolve interoperability issues with Release 3.x file format databases. This means that, except in uncommon cases, Release 3.x and Release 4.x workstations can access Release 3.x and Release 4.x databases without any difficulty.

Notes can have three combinations of server releases and file formats.

- Release 4.x servers with Release 4.x format databases
- Release 4.x servers with Release 3.x format databases
- Release 3.x servers with Release 3.x format databases

When a user creates a database or a replica on a server, this database is created using the file format for the server. For example, if a Release 4.x workstation creates a database on a Release 3.x server, the database is created in the Release 3.x file format. A Release 3.x server cannot recognize the Release 4.x file format.
For these reasons, a Release 3.x server should never have a Release 4.x database on it. This can occur only when you do one of the following:

- Use the operating system to copy a Release 4.x file format database to a Release 3.x server.
- Send a Release 4.x file format database as an attachment to an e-mail. The recipient detaches the e-mail to a Release 3.x server.
- Upgrade the server to Release 4.x, upgrade the file format of databases residing on the server, and then downgrade the server to Release 3.x.
- Install Release 3.x and Release 4.x on a single workstation and create a database using Release 4.x.

When you compact a database on a Release 4.x workstation, Notes converts databases with the Release 3.x file format to the Release 4.x file format. If the database has an .NS3 file extension and you compact the database, Notes removes white space and frees hard disk space without converting the database to Release 4.x file format.

Client, Server

**About upgrading mail**

Notes comes with a new standard mail template, StdR46Mail (MAIL46.NTF). The standard mail template includes new features such as the following:

- Groups that you can create from a mail message or calendar entry
- Easy conversion of a mail message, calendar, or task to another type of document

Notes automatically adds the mail database to the Favorites portfolio during setup.

The StdR46Mail template is new in Release 4.6.1. For Release 3.x, 4, 4.1, and 4.5 users to take advantage of the new mail features and to set up POP3 mail clients, you must upgrade mail servers to Release 4.6.1, upgrade workstations to 4.6.1 (or later 4.6x releases), and complete the mail upgrade process. Do not upgrade mail databases to the new mail template unless you have already upgraded servers to Release 4.6.1 (or later) and workstations to Release 4.6.1 (or later). Otherwise mail features do not work properly.

Client, Server

**About methods of upgrading mail**

Notes provides two ways to upgrade several mail databases to the Release 4.6.1 and 4.6.2 mail templates: using the mail conversion utility (Convert server task) or using a Public Address Book form that automates both the workstation and mail upgrade. If you are upgrading from Release 4, 4.1, or 4.5, you can also upgrade an individual mail database by replacing the database design with StdR46Mail.

The mail conversion utility is a server task that you run at the server console. Use the mail conversion utility when you want to upgrade several mail databases simultaneously.

The Public Address Book form lets administrators upgrade Notes on workstations and upgrade mail databases. Use the Public Address Book form when you want users to control when their workstation and mail upgrade occurs.
About the mail upgrade process

When you upgrade mail databases using either the mail conversion utility or the Public Address Book form, Notes does the following:

- Notes applies the new design in MAIL46.NTF to the mail database.
- If you are upgrading a Release 3.x mail database, Notes creates folders for categories, creates subfolders for subcategories, adds categorized documents to those folders or subfolders, and adds uncategorized received documents to the Inbox. Notes does not perform this step if you are upgrading Release 4, 4.1, or 4.5 mail databases since Notes already created the folders and subfolders when you created the databases or upgraded them from Release 3.x.
- Notes adds StdR46Mail to the "Inherit design from template" setting in the Database InfoBox if the mail database had a design template specified.

The mail conversion utility and the Public Address Book form run on all documents even if you created or modified them after you converted the database. Do not use either of these methods more than once on a mail database.

If you are upgrading a Release 3.x mail database, do not use File - Database - Replace design to replace the design of the database with MAIL46.NTF before upgrading. Notes does not convert categories to folders if you replace the design of the database before upgrading. To correct this problem, select View - Design, select Folders, and delete $Inbox. Then, upgrade the database again.

The mail upgrade process does not affect the read and unread marks in the mail database. Documents that were marked read or unread prior to the upgrade remain read or unread. In addition, the mail upgrade process does not change the index or file format of the mail database.

About upgrading replica mail databases

If users have replica mail databases on their local hard drives or on several servers, upgrade only the primary mail databases and tell the user to replicate the changes to the replicas. Primary mail databases are the databases that the Mail Router delivers mail to on a server. If you upgrade replicas using one of the mail upgrade utilities provided by Notes, duplicate folders may appear in the mail databases.

To help prevent upgrading replicas, use the -l option provided with the mail conversion utility (Convert server task) to create a list of primary mail databases on a server.

Make sure the replicas receive design changes by selecting the following settings in the Replication Settings dialog box on the Advanced tab:

- Forms and views
- Agents
- Replication formula
- Access control list
- Deletions

You cannot use StdR46Mail on databases that reside on Release 3.x, 4, 4.1, or 4.5 workstations or Release 3.x, 4, or 4.1 servers, so make sure you upgraded servers and workstations with mail database replicas. Otherwise, mail features do not work as expected. If you must keep a replica on a Release 3.x, 4, 4.1, or 4.5 workstation or a Release 3.x, 4, or 4.1 server, make sure you do not replicate the design to the replica by deselecting the following settings in the Release 3.x Selective Replication or the Release 4.x Replication Settings dialog box on the Advanced tab:

- Forms and views
- Macros (Release 3.x) or Agents (Release 4.x)
About using the Release 3.x, 4, 4.1, or 4.5 mail template

In Release 3.x, the standard mail template is StdNotesMail (MAIL.NTF). In Release 4 and 4.1, the standard mail template is StdR4Mail (MAIL4.NTF). In Release 4.5, the standard mail template is StdR45Mail (MAIL45.NTF). Notes does not delete or write over these templates during the Install program.

Users who upgrade their mail databases to StdR46Mail can exchange mail with users using StdNotesMail, StdR4Mail, and StdR45Mail. Although Notes mails the information entered in the message, some features used in messages sent from StdR46Mail users are not completely available to StdNotesMail, StdR4Mail, and StdR45Mail users, such as mood stamps for StdNotesMail users.

You can use the calendar features in the StdR46Mail template to send meeting invitations to StdNotesMail, StdR4Mail, and StdR45Mail users. StdNotesMail and StdR4Mail users are able to view the meeting information using the default Memo form, but they cannot reply to meeting notices or delegate the meeting to anyone else. You can send meeting invitations to StdR45Mail users without any restrictions.

For more information on mail templates, see Appendix A of the Application Developer's Guide.

Upgrading multiple mail databases with the mail conversion utility

For 4.6.2 Mail Template upgrades:

1. Make sure you upgraded the workstations to Release 4.6.2 and mail servers to Release 4.6.
2. Copy the MAIL46.NTF file from a Release 4.6.2 client to the Notes data directory on the server.
3. Notify users who have customized forms, views, or agents (macros) that are part of the standard mail template, to copy their forms, views, and agents (macros) to a temporary database.
4. Start the Notes server.
5. To store all mail messages in the server's Outgoing Mail (MAIL.BOX) while the mail conversion utility is running, temporarily shut down the Mail Router by typing at the server console:

   tell router exit

6. Load the mail conversion utility.
7. After the mail conversion utility completes the upgrade, restart the Mail Router by typing at the server console:

   load router

8. Notify users that they can recreate their customized forms, views, and agents if necessary.
**About mail conversion utility arguments**

The mail conversion utility (Convert server task) lets you upgrade multiple mail databases at the server console. The mail conversion utility uses the following format:

```
```

**Note:** The brackets [] indicate optional arguments.

**Argument descriptions**

- **-f**
  Uses database names listed in a text file and updates only those databases listed in the text file. If you use this argument, you must specify a text file for `filename`. You can specify `-f` either before or after the text file name. Use the `-f` argument after you create the text file with the `-l` argument.
  
  You cannot use the `-f` and `-l` arguments simultaneously.

- **-l**
  Creates a text file that contains a list of primary mail files on the server. The contents of the file reflect the list of names that appear categorized for the server in the Mail Users view of the Public Address Book. To use this argument, you must upgrade the Public Address Book to the Release 4.5 design template. The list includes primary mail files only, not replicas.
  
  You must specify a text file name where you want to save this information for `filename`. You can specify any file extension you want for the file. However, the mail conversion utility creates the file in text file format, regardless of the file extension. Notes creates the text file in the Notes data directory or in a directory you specify. If the file name already exists, the mail conversion utility gives you a message and does not write over the file.
  
  You can specify `-l` either before or after the text file name. Use the `-f` argument after you create the text file with the `-l` argument.
  
  You cannot use the `-f` and `-l` arguments simultaneously.

- **-r**
  Searches the specified directory and all of its subdirectories.

- **-i**
  Ignores the maximum folder limit. If you try to upgrade a database that has more than 200 categories or subcategories and you do not use the `-i` argument, the mail conversion utility does not upgrade the mail database. You get a message indicating that you must upgrade the mail databases again using the `-i` argument.
  
  Do not use this argument if the workstation has not been upgraded to Release 4.6. Users cannot use a Release 3.x workstation to access the mail database if the database contains more than 200 folders and subfolders.

- **-d**
  Replaces the design template with the template you specify, but does not create folders or subfolders and does not add categorized documents to them. You do not have to specify this argument when upgrading Release 4 and 4.1 mail databases. The mail conversion automatically detects Release 4 and 4.1 mail databases and does not convert categories to folders.
-n
Displays a list of databases involved in the upgrade, but does not upgrade them. Use this option to test which databases the mail conversion utility converts.

**drive**
Specifies the drive letter on which the Notes databases or the text files exist. If you do not specify a drive, the mail conversion utility searches for databases using the Notes data directory as the root directory.

**directory**
Specifies the directory on which the Notes databases or the text files exist. If you do not specify a drive, Notes uses the Notes data directory as the root directory to search for the databases or text files. For example, if you specify MAIL and your Notes data directory is located in D: \NOTES\DATA, the mail conversion utility looks for databases in the D: \NOTES\DATA\MAIL directory since it uses D: \NOTES\DATA as the root directory.

**filename**
Specifies the name of the databases to convert. You can use wildcard characters to specify several databases. If you use the -f argument, **filename** specifies the name of the text file that contains a list of databases to convert. If you use the -l argument, **filename** specifies the name of the text file to create to store a list of database names.

**oldtemplate**
Specifies the name of the template the databases are currently using. You can use wildcard characters to match more than one template name in the databases or use an asterisk (*) to upgrade all databases, regardless of their template name. If you use an asterisk (*), make sure the databases you specify are mail databases because the mail conversion utility upgrades the design of the databases to mail databases, regardless of whether they are, in fact, mail databases.

If you specify a template name, the mail conversion utility upgrades only the databases that use that template. For example, if you specify Std*, the mail conversion utility upgrades databases that have a design template name that begins with the letters Std.

If you are using the -l argument, you cannot specify **oldtemplate**.

If you are not using the -l argument and do not specify **oldtemplate** and **newtemplate**, Notes does not replace the template. It does, however, create folders for categories, create subfolders for subcategories, add categorized documents to those folders or subfolders, and add uncategorized received documents to the Inbox. If you previously used the mail conversion utility with the -d option, you can use this method to add documents to folders, subfolders, and the Inbox. Do not use the mail conversion utility without the **oldtemplate** and **newtemplate** arguments unless the mail database already uses StdR46Mail (MAIL46.NTF) as the design template.

**newtemplate**
Specifies the file name for the template you want the databases to use.

If you are using the -l argument, you cannot specify **newtemplate**.

If you are not using the -l argument and you do not specify **oldtemplate** and **newtemplate**, Notes does not replace the template. It does, however, create folders for categories, create subfolders for subcategories, add categorized documents to those folders or subfolders, and add uncategorized received documents to the Inbox. If you previously used the mail conversion utility with the -d option, you can use this method to add documents to folders, subfolders, and the Inbox. Do not use the mail conversion utility without the **oldtemplate** and **newtemplate** arguments unless the mail database already uses StdR46Mail (MAIL46.NTF) as the design template.
Examples: Upgrading multiple mail databases with the mail conversion utility
The following are examples for upgrading mail databases.

Upgrading a single Release 3.x mail database
This example finds the mail database USER.NSF in the \MAIL subdirectory of the Notes data directory and checks whether the mail database uses StdNotesMail. If it does, the mail conversion utility replaces StdNotesMail with StdR46Mail (MAIL46.NTF), creates folders for categories, creates subfolders for subcategories, adds categorized documents to these folders or subfolders, and adds uncategorized received documents to the Inbox.

load convert mail\user.nsf stdnotesmail mail46.ntf

Upgrading all Release 3.x mail databases in a directory
This example finds all databases located in the \MAIL subdirectory of the Notes data directory that use StdNotesMail, replaces the design template with StdR46Mail (MAIL46.NTF), creates folders for categories, creates subfolders for subcategories, adds categorized documents to these folders or subfolders, and adds uncategorized received documents to the Inbox.

load convert mail\*.nsf stdnotesmail mail46.ntf

Upgrading all Release 4 and 4.1 mail databases in a directory
This example finds all databases located in the \MAIL subdirectory of the Notes data directory that use StdR4Mail and replaces the design template with StdR46Mail (MAIL46.NTF).

load convert mail\*.nsf stdr4mail mail46.ntf

Upgrading all Release 4.5 mail databases in a directory
This example finds all databases located in the \MAIL subdirectory of the Notes data directory that use StdR45Mail and replaces the design template with StdR46Mail (MAIL46.NTF).

load convert mail\*.nsf stdr45mail mail46.ntf

Upgrading all mail databases in a directory and its subdirectories
This example finds all databases located in \MAIL subdirectory of the Notes data directory and all subdirectories of the \MAIL directory (for example, C:NOTES\DATA\MAIL\GROUP1, C:NOTES\DATA\MAIL\GROUP2, and C:NOTES\DATA\MAIL\GROUP3) and replaces the design template with StdR46Mail. If the mail database is Release 3.x, the conversion utility then creates folders for categories, creates subfolders for subcategories, adds categorized documents to these folders or subfolders, and adds uncategorized received documents to the Inbox.

This command upgrades all databases, including non-mail databases.

load convert -r mail\*.nsf mail46.ntf

Creating a text file that lists all mail databases
This example creates a text file in the C:TEMP directory called MAILLIST.TXT, which contains a list of primary mail databases on the server (MAILLIST.TXT does not contain replica mail databases or non-mail databases). After you create the text file using this option, you can use it as input with the -f argument to upgrade the mail databases listed in the text file.

load convert -l c:temp\maillist.txt
Upgrading all mail databases listed in a text file

This example finds all databases listed in MAILLIST.TXT, determines whether the databases use a design template name that matches STD* (StdNotesMail, StdR4Mail, or StdR45Mail, for example), and replaces the designs of the matching databases with StdR46Mail (MAIL46.NTF). If the mail database is Release 3.x, the mail conversion utility then creates folders for categories, creates subfolders for subcategories, adds categorized documents to these folders or subfolders, and adds uncategorized documents received to the Inbox.

load convert -f c:\temp\maillist.txt std* mail46.ntf

Client, Server

Upgrading workstations and mail databases using the Public Address Book

1. Create a distribution area for Notes on a shared file server. The users you want to upgrade must have access to this file server.

   For more information, see Chapter 2 of Getting Started with Domino.

2. Copy the MAIL46.NTF file from a Release 4.6 workstation to the Notes data directory on the server.

3. Start the Notes workstation.

4. In the Public Address Book access control list, make sure administrators have the NetModifier or UserModifier role and at least Author with Create access.


6. Click System Databases and choose Address Book.

7. Choose View - Server - Mail Users.

8. Click Send Upgrade Notifications.

   **Note** This button does not appear if you try to access the Public Address Book locally. Make sure you access the Public Address Book on the network.

9. Enter the names of the users you want to upgrade in the To field.

10. Enter the root path where the Notes Install program is located in the "Root path for Install kits" field.

11. Enter the directory where the Notes Install program is located in the field for the appropriate operating system.

12. Enter the design template name of the mail databases you are upgrading. Enter * (asterisk) if you want Notes to upgrade the mail databases regardless of their current design template names.

13. Enter the name of the template that you want to use to upgrade. Typically, this is MAIL46.NTF unless you changed the name of the template.

14. If you want Notes to convert mail databases that contain more than 200 categories and the user does not use Release 3.x, select “Ignore 200 category limit.”

15. (Optional) Enter comments in the "Additional Information" field, for example, tell users to copy any customized forms, views, and agents that are part of the standard mail template to a temporary database.

16. To change which workstations are upgraded to Notes Release 4.6, enter a build number in the “Do not upgrade Notes if the workstation uses build [x] or later” field.

17. If you want to receive a message indicating whether the upgrade process completed successfully, select Yes in the "Notify Administrator when users complete mail conversion" field.
18. Click the Send button.

19. Once users receive the message, they complete the following steps:
   - Save all work.
   - Open the message.
   - If the workstation is not using the build specified or a later build than the one entered in step 16, click Install Notes. After Notes upgrades the workstation, re-open the message sent by the administrator.
   - Click Upgrade Mail File.

20. Notify users that they can recreate their customized forms, views, and agents if necessary.

Client, Server

**Details: Upgrading workstations and mail databases using the Public Address Book**

When you upgrade using mail, Notes checks the platform of the current Notes release on the workstation and starts the appropriate Install program. If the workstation is already running Release 4.6 (or the build that you specified in the Send Upgrade Notification message or a later build), the Install Notes button does not appear in the message. If you already converted the user's mail database, the Upgrade Mail File button does not appear in the message.

Notes displays the build number of the workstation on which you create the Send Upgrade Notification message in the "Do not upgrade if workstation uses build [x] or later" field. Make sure you create this message on a Release 4.6 workstation, so Notes upgrades all workstations that use previous releases. If you want to display the build number of a Notes release, create a formula using @Version on the workstation.

For information about @Version, see Chapter 7 of the *Programmer's Guide*.

After the upgrade is complete, Notes sends the user a mail message either confirming the upgrade completed successfully or describing an error that occurred during the process. If you want the administrator to receive a mail message as well, select "Notify Administrator when users complete mail conversion."

Do not select "Ignore 200 category limit" if Release 3.x workstations need to access the mail database or replicas of the mail database. If you do not select this option and the mail database has more than 200 categories, the user receives a mail message indicating that the upgrade failed.

If the server does not process the mail database upgrade within the time limit specified in the Server_Session_Timeout setting in the NOTES.INI file, increase the time limit or use the mail conversion utility to upgrade the database.

If users have Windows 95 workstations and are running Notes Release 3.x for Windows 3.1 on that workstation, Notes asks whether they want to install Notes Release 4.6.1 for Windows 3.1 or Notes Release 4.6.1 for Windows 95 when they select the Install Notes button.
About using Organizer with Notes
Lotus Organizer 97 GS provides interoperability between Organizer 2.x and Notes and conversion utilities to convert Organizer users to Notes users. The following features are available with Organizer 97 GS:

- Conversion of an Organizer 2.x scheduling file to your Notes mail database and calendar, which lets you use Organizer with Notes to schedule meetings.
- Exchange of meeting invitations between users who use Organizer 2.x with cc:Mail and Notes calendar and scheduling or Organizer 97 GS users.
- A plug-in that lets Notes users look up free time for Organizer 2.x users.

For additional information about the availability of these tools, visit the Lotus Organizer Web site at http://www.lotus.com/organizer.

To convert an Organizer 2.x or later calendar to a Notes mail database and calendar, use the migration tool available from Binary Tree, Inc. For additional information, visit the Binary Tree Web site at http://www.binarytree.com.

About converting an OfficeVision mailbox and calendar to a Notes mail database
You can convert OfficeVision users from OfficeVision/VM, OfficeVision/MVS, and OfficeVision/400 to a Notes mail database and calendar.

The OfficeVision Migration Tools let you manage the migration process by making it easy for you to create a migration schedule and view status information for the users at your organization. When you are ready to migrate, the OfficeVision Migration Tools provide a robust mechanism to move thousands of users to Notes with a minimum amount of disruption for your users.

For additional information on the OfficeVision Migration Tools, visit the IBM Web site at http://www.software.ibm.com/is/ibm-lotus.

Scheduling meetings with OfficeVision users
Notes users and OfficeVision users can schedule meetings with the Lotus Calendar Connector for OfficeVision. To use the Calendar Connector for OfficeVision, install the Calendar Connector on the server and create a Foreign Domain document in the Public Address Book to specify the Calendar Connector program name.

Calendar Connector lets users schedule meetings from OfficeVision and Notes, while they continue to use the familiar environment of their current calendar system.

For additional information on the Lotus Calendar Connector for OfficeVision, visit the IBM Web site at http://www.software.ibm.com/is/ibm-lotus.

For information on setting up Notes scheduling to include the Lotus Calendar Connector for OfficeVision, see Chapter 5 of Extending the Domino System.
About upgrading Notes databases
Upgrading databases on the server involves updating the view and full text indexes and, if necessary, converting the database to Release 4.x file format.

About updating view and full text indexes
If you are upgrading from Releases 4, 4.1, or 4.5, you do not need to update view and full text indexes; the indexes already use the 4.6.1 and 4.6.2 formats. If you are using Release 3.x, updating view indexes is optional since Notes automatically updates view indexes in a database the next time you open that view. However, updating the indexes for databases in the background instead of when you open a view helps prevent delays in database access.

Ensure the view and full text indexes are on writable media. For example, Notes cannot update the view and full text index for a database that is stored on a CD-ROM since a CD-ROM is a read-only medium.

Updating view and full text indexes
1. Start the Notes workstation.
2. Choose File - Tools - User Preferences.
3. Select “Enable local background indexing” and click OK.

About converting the database file format
If you are upgrading from Releases 4, 4.1, or 4.5, you do not need to update the database file format; the databases already use the 4.6 format. Converting the database file format is optional. However, you need to convert the file format if you want to take advantage of specific Release 4.x features that require the new file format. The following features require the Release 4.x file format:

- Securing databases by forcing replica databases to use the same access control list (ACL), including local replica databases. This ensures that users can perform only tasks allowed by the ACL of the database stored on the server.
- Setting a limit on the database size to control the amount of hard disk space that databases occupy.
- Replicating fields, rather than entire documents, to save replication time.
- Using @AllChildren and @AllDescendants in selective replication formulas to replicate only the response documents that correspond to the main documents you replicate.

When you compact the database file to convert it to the new file format, you must have enough available hard disk space for Notes to create its temporary files. You should have hard disk space available equal to the size of the largest database file you want to convert. When the conversion process is complete, Notes deletes these temporary files. Compacting the database file does not increase the size of the file.

If a file is saved with the .NS3 file extension, compacting the file removes whitespace but does not convert the file format.
How to convert the database file format
1. Start the Notes workstation.
2. Select the database you want to convert.
4. Select and click Compact.

Details: Converting the database file format
If you save a database with the .NS3 file extension and later want to upgrade that database to Release 4.x file format, you must create a copy or replica of the database using File - Database - New Copy or File - Replication - New Replica and specify a database with an .NSF file extension.

About downgrading Notes databases
You can downgrade Notes databases by creating a replica of a database with the .NS3 file extension. You must use Notes to save the database with the .NS3 file extension. You cannot use the operating system to rename the database.

If you upgrade a Release 3.x database to Release 4.x file format and then downgrade the database without adding new features or documents to the database, the database size returns to the size of the original Release 3.x database.

Do not downgrade a Release 4.x file format database to Release 3.x format if the database includes Release 4.x specific features. However, if you must do so, test the conversion to see how Notes converts Release 4.x features to Release 3.x features.

How to downgrade Notes databases
1. Start the Notes workstation.
2. Select the database you want to downgrade.
4. Specify the server where you want to create the replica, enter the name of the new replica, and enter a file name with the .NS3 file extension.
5. Specify any other settings you want and click OK.

Troubleshooting tips for upgrading mail and Notes databases
The following includes problems that can occur during the mail and Notes database upgrade process and how to correct these problems.
Client

**Users cannot find forms and views in their mail databases**

When users open their mail databases, none of their customizations to forms and views in the standard mail template appear in the database.

This problem occurs if users did not back up changes that they made to system forms and views included with the standard mail template before you upgraded the mail databases on the server. If you made backup copies of the user mail databases before you upgraded them, recreate the forms and views in their Release 4.6.1 mail database if necessary.

Client, Server

**Certain categories in a mail database not converted to folders**

When a user opens a mail database, the categories that were in the previous version of the mail database do not appear as folders in the converted version of the mail database. Or you receive the following error when using the mail conversion utility: "Number of categories exceeds the maximum limit of 200. Please re-run this utility and specify the -i option."

This problem occurs when a user has more than 200 categories in the Release 3.x mail database. The mail conversion utility does not convert more than 200 categories to folders unless you use the -i argument to ignore the 200-category limit. Run the mail conversion utility again and use the -i argument if you are sure Release 3.x workstations cannot access this database. Release 3.x workstations cannot access a mail database that contains more than 200 folders and subfolders.

When you run the mail conversion utility again, specify the -i argument and do not specify an old design template and a new design template name. The mail conversion utility already converted the design of the mail database. For example, enter the following:

```
load convert mailfile.nsf -i
```

Client, Server

**Getting the message "None of the specified databases' templates match" when upgrading mail**

When using the mail conversion utility, you get the message "None of the specified databases templates match."

This error occurs when you enter mail databases to upgrade and none of the mail databases match the old design template you specified. For example,

```
load convert *.nsf stdnotesmail mail46.ntf
```

This command displays this message if the database files do not use StdNotesMail for their design template.

Specify a design template that the mail databases use or use an asterisk (*) to upgrade all mail databases, regardless of the old design template name. For example,

```
load convert *.nsf * mail46.ntf
```

This command converts all databases in the Notes data directory, regardless of their design template name. Ensure all databases in the directory are mail databases before you use an asterisk (*).
Client, Server

Getting the message "No database found in the specified directory that matches filename" upgrading mail

When using the mail conversion utility, you get the message "No database found in the specified directory that matches filename" or you get the message "No database found in the specified directory and its subdirectories that matches filename."

This message occurs when you enter a mail database to upgrade that is not located in the Notes data directory or the directory you specified. If you used the -r argument, the mail database is not located in the Notes data directory, subdirectories of the Notes data directory, a directory you specified, or subdirectories of the directory you specified. For example,

```
load convert c:\notes\mail\bcaulfie.nsf stdnotesmail mail46.ntf
```

This command displays message if the mail database BCAULFIE.NSF is not located in the C:\NOTES\MAIL directory.

Specify the correct location of the files, or if the databases are located in the Notes data directory, do not specify a directory. The mail conversion utility automatically searches this directory.

Client, Server

Getting the message "Unable to open design template file filename" when upgrading mail

When using the mail conversion utility, you get the message "Unable to open design template file filename."

This message occurs when you enter a new template name and the template does not exist or the template is not in the Notes program or data directory. For example,

```
load convert c:\notes\mail\aserpa.nsf stdnotesmail mail46.ntf
```

This command gives you this message if the template MAIL46.NTF does not exist or is not located in the Notes program or data directory.

If the template does not exist, copy the template from a Release 4.6.1 workstation. If the template is in a directory other than the Notes program or data directory, specify the path to the template or move the template to the Notes data directory.

Client, Server

Getting the message "Missing text file name" when upgrading mail

When using the mail conversion utility, you get the message "Missing text file name." This message occurs when you use the -l argument to create a list of mail databases for the server, but do not specify a text file name. For example,

```
load convert -l
```

You must specify a text file name—for example, LIST.TXT. The mail conversion utility creates this text file if it doesn't already exist and saves it in the Notes data directory unless you specify a drive and directory.
Client, Server

**Categories not converted to folders**
You ran the Convert server task or the form in the Public Address Book to upgrade a Release 3.x user's mail database and Notes did not convert any of the categories in the database to folders.

If the user's database displays features in the new mail database design template (MAIL46.NTF), but Notes did not convert the categories in the database, make sure the database design template was not replaced before upgrading the mail database. If you replace the design template before upgrading the mail database, Notes does not convert categories to folders.

Select the user's mail database, choose View - Design, select Folders, select $Inbox, and choose Edit - Cut. This deletes the Inbox from the user's mail database. Complete the mail upgrade process again for that database.

Client

**Users cannot start Install when upgrading by mail**
Users are sent the upgrade notification memo from the Public Address Book. When they click Install Notes, they get the message "Unable to execute drive:directory\Install.exe."

This error occurs if you specified the incorrect location of the Install program in the Upgrade Notification memo or if users do not have sufficient access to the network drive and directory that contains the Install program for that platform.

Make sure users have sufficient access to the network drive and directory. Then, resend the Upgrade Notification memo and make sure you specify the correct location of the Install program (INSTALL.EXE).

---

**Web Administration**

Server

**Web Administration tool**

**All platforms (Release 4.6.2)**

WebAdmin is supported using Netscape Navigator 4.05 and earlier and Microsoft Internet Explorer 4.01 and earlier on most platforms (see platform-specific information below).

To upgrade an existing webadmin.nsf database (from 4.6 or 4.6.1) to the 4.6.2 version, the design of the database has to be refreshed with the new 4.6.2 template, either automatically at 1am by the DESIGN task or manually using "LOAD DESIGN" at the server console. After the design has been upgraded, the database performs an additional, automatic upgrade the first time you open webadmin.nsf from a browser. To successfully complete that upgrade, you must be listed as a manager in the webadmin.nsf ACL. The upgrade will be attempted every time you access the webadmin.nsf from a browser until the upgrade completes successfully.

If you encounter any WebAdmin anomalies (such as crashes) try shutting down HTTP, and deleting webadmin.nsf. Restarting HTTP automatically creates a new webadmin database from the webadmin template.
Disabling "DNS Lookup" in the "HTTP Server" section of the server document increases performance. This is disabled by default.

The Web administration tool does not support browser dragging and dropping. If you attempt to drag and drop a hypertext button in the Web Administration tool, a chainlink icon appears, however, this icon does not provide any function.

WebAdmin is not supported on any file system that does not support long filenames.

By default, web administrators cannot modify security on most Notes databases, because Notes databases do not have the "Maximum Internet name & password access" parameter set above "Editor". You need to use a Notes Client to increase this parameter to "Manager" if you want to modify Notes database security from a browser. You also need to ensure that this parameter is set to "Editor" or above if you want to edit Notes documents from a browser.

Your Web browser's cache must be set to check documents every time (see Netscape and IE issues below).

WebAdmin supports SSL V2.0 and V3.0, but it does not support SSL V3.0 Client Certificate authentication.

The server's name is added to the "Administrators:" field in the server document to support WebAdmin remote console.

If you are having trouble logging into WebAdmin from a browser, ensure that you are logging in with one of the aliases specified in the "User Name" field of your person document, and that you are using the correct password as specified in the "Internet password" field. Also, it is recommended to rebuild the views in the address book. Your name should also be listed in the server documents "Administer the server from a browser" field, and in the ACL on webadmin.nsf.

If you want to use Web Admin to modify database security, for example, database ACLs and roles, and your server ID password is enabled, you need to set the server ID to "share password with Notes add-ins." To do this select File - Tools - UserID - Basics and enable the "Share password with Notes add-ins" checkbox.

**Netscape issues**

WebAdmin 4.6 was originally supported on Netscape Navigator 3.01 Gold.

Netscape Memory Cache: Lotus recommends increasing your Netscape browser memory cache size to 2048 or higher from 1024.

Netscape Navigator 3.01 users should select "Options - Network Preferences" and click the Cache tab. Click the "Every time" radio button in the "Verify Documents" section (labeled "Check Documents" on Macintosh).

Netscape Navigator 4.05 users should select "Edit - Preferences", expand the Advanced section, and select the Cache category . Ensure that the setting for "Document in cache is compared to document on network" is set to "Every Time."
Internet Explorer issues
WebAdmin 4.6 was originally supported on Internet Explorer 3.02.

Internet Explorer 4.01 users need to disable HTTP 1.1. This setting is located at the bottom of the Advanced section under "View - Internet Options - Advanced".

Internet Explorer 4.01 users also need to ensure that the browser's cache is updated properly. Select "View - Internet Option". In the General section, under Temporary Internet files, click the Settings button. Enable the "Every visit to the page" button.

Internet Explorer 3.0x users should select Options from the View menu and click the Advanced tab. Select the Settings button, and enable the "Every Visit to the Page" radio button.

If your Internet browser setting in your Location document is set to "Notes with Internet Explorer" or "Microsoft Internet Explorer", you must make sure the Update cache setting in the Advanced section of the Location document is set to "every time". This setting overrides the setting in Microsoft Internet Explorer as mentioned previously.

Windows issues
The Web Administration tool does not support 16-bit Web browsers.

OS/2 issues
WebAdmin is only supported with Netscape Navigator 2.02 using the "Plain interface" on OS/2.

The OS/2 Netscape browser requires two clicks to make a selection happen, once to make the selection and another click in the frame to get to the selection.

OS/2 is reduced to a plain GUI only because the OS/2 Netscape 2.02 does not support seamless frames.

Macintosh issues
Netscape Navigator 3.01 Gold is the only fully-supported browser on the Macintosh. More recent versions of Netscape are only supported in "Dropdown interface" and "Plain interface" due to Javascript problems. Similar Javascript problems, and lack of support for HTTP 1.0, prevent all versions of Internet Explorer from working with WebAdmin.

Memory requirements for Navigator 3.01 need to be set to 21 MB.

Scroll bars do not work correctly under Navigator 3.01. The scroll bars appear if the window is reloaded, or if you switch focus between Navigator and another application, and then back to Navigator.

Patch requirements
Windows NT 4.0 (Intel & Alpha) needs Service Pack 3 in addition to Java Hotfix required (from www.microsoft.com).

Windows NT 4.0 (Alpha only): Microsoft IE 3.02 with JavaVM 1.5.1 required (from www.microsoft.com).
Additional new features

Server

Improving Web server performance using the Command Cache
In Release 4.6.2 and later, Domino caches in memory pages that contain @functions in addition to HTTP commands, databases, and user names. This feature was actually implemented in Domino 4.6.1. Previous to the 4.6.1 release, Domino did not cache pages that contained @functions, since many of the @functions made the pages too volatile for caching. The area of memory reserved for this type of cache is called the Command Cache.

This feature is turned off by default in Domino. To turn on this feature, enter the following line in the NOTES.INI file on the Web server:

```
DominoAnalyzeFormulas=1
```

Domino analyzes the @functions on a page and then determines whether the page should be cached. Domino does not cache pages that contain @functions that cause the content to change frequently since the information in the cached version would quickly become out of date. Domino uses a cache flag and a cache strategy to determine the level of restriction for an @function. If a page contains multiple @functions, then the @function with the highest level of restriction is enforced.

The following are flags that Domino assigns to pages that are candidates for the Command Cache:

- UserVariant --a page is dependent on the user's identity. Flagged as a candidate only if the user is not authenticated with the server.
- DesignUserVariant--a page is from a database that contains protected design elements. Flagged as a candidate only if the user is not authenticated with the server.
- DbData--a page uses data in the database other than the current document's data.
- UsedDocId--a page uses the document ID.
- UsedNewDoc--a page uses a new document.

If the page does not contain a flag or if it contains flags other than the ones listed above, then Domino does not cache the page.

In addition, Domino uses a cache strategy to determine whether the cached page is still valid. For example, if the content of a document changes or if the design changes and the @function depends on the document or design of the database, then the cached response is invalidated and the page is again evaluated.

Here are some examples of @functions contained in pages that Domino caches:

- @Created
- @DbManager and @DbTitle (if the user did not authenticate with the server)
- @DocumentUniqueID
- @GetDocField and @GetProfileField (if the user did not authenticate with the server)
- @InheritedDocumentUniqueID
- @Modified and @NoteID
- @Responses
- @UserName, @UserPrivileges, and @V3UserName (if the user did not authenticate with the server)
- @ViewTitle
Here are some examples of @functions contained in pages that Domino does not cache:

- @Now, @Today, @Tomorrow, @Yesterday, and @Zone
- @GetPortsList
- @Unique and @Random
- @MailSend

You can check Command Cache performance by monitoring the following server statistics:

- Domino.Cache.Command.HitRate--the percentage-ratio of the number of times a valid cache entry is found in the cache compared to the number of times Domino checked the cache for an entry. If Domino checks the cache 100 times and 50 of those times it finds the cache entry, then the hit rate is 50 percent. You want the hit rate to be high.
- Domino.Cache.Command.DisplaceRate--the percentage-ratio of the number of times that a new cached commands displaces an aged command compared to the number of times Domino checked the cache for an entry. If Domino checks the cache 100 times and 20 of those times it replaces an already-cached command, then the displacement rate is 20 percent. You want the displacement rate to be low.

To modify the Domino cache analysis, add the following fields to a form:

- $CacheOptions--enter "0" to prevent Domino from caching any pages created with this form.
- $CacheValid--numeric text field that protects a cached response from validity checks for the number of seconds specified. You can set this in the NOTES.INI file for all documents on a server by entering DominoDefaultCacheValid=number. The default is 0.

New SMTP MTA NOTES.INI variables since the initial 4.6 release

Support for the following NOTES.INI variables used by SMTP MTA has been added starting with Domino 4.6.2:

**SMTP_REPLACE_DOTS_OFF=1**
This variable prevents the SMTP MTA from assuming that a period is the space replacement character in the local part of an inbound address that does not contain underscores, resulting in forwarding to another Notes domain.

**SMTP_LEFT_DOT_NEVER_DOMAIN=1**
When this variable is set, an inbound address period (\'.\') is never considered as a possible domain space replacer; In the example first.last@domain.suffix, last is never considered as a potential Notes domain.

**SMTPMTA_RELAY_FORWARDS=1**
When this variable is set, the SMTP MTA checks if a recipient has a forwarding address. If the forwarding address is an SMTP 821 address, it relays the message back out without conversion.
**SMTPMTA_IPADDR**
For a Partitioned Notes Server configuration, this variable provides an alternative way to utilize a designated Network Interface Card (NIC). Set the variable to the IP address that has been assigned to a NIC. For example, a service provider is running multiple servers (partitioned servers) on a Windows NT server, and has an SMTPMTA on each server for each different company. Any SMTP inbound mail to a specific server on this NT box is received/processed by the corresponding SMTP MTA of that server. Example: SMTPMTA_IPADDR=9.99.99.999

**SMTPMTA_CONVERT_ORIGINATOR=1**
By default, the MTA does not convert the Originators address for inbound mail. For implementations with some people using Notes to read Notes mail and some using POP3/IMAP4 to read Notes mail, this might be a problem because replies to messages from POP3/IMAP4 users have to “Out and In” the MTA before reaching the destination mail file. By setting the variable SMTPMTA_CONVERT_ORIGINATOR=1 in the Notes.ini, the MTA uses the same technique it uses for Recipient addresses on the Originator addresses. If an Originator's address can be mapped to a Notes user, this is used for the Notes From field. This ensures that replies go directly to their Mail file rather than the MTA.

**SMTPMTA_ENABLE_STARTUPCHECK=1**
In previous versions, an administrator might stop a critical task and forget to restart it. The MTA now restarts all five critical tasks: omsgcnv, imsgcnv, osesctl, isesctl, and dnt, after the next daily compaction. In addition, if the SMTPMTA_ENABLE_STARTUPCHECK=1 variable is set, a check for all five critical tasks takes place every half hour and any missing tasks are logged and automatically restarted.

**SMTPMTA_IB_TEXT_ALIGNMENT=1**
This variable helps to better format tabular data that runs past the line length of a screen. Plain text will have no alignment rather than left-justified. This prevents the Notes client from wrapping the data to fit the screen. Without this INI variable set, the data wraps to fit the screen.

**SMTPMTA_IBMAX_MSG_SIZE**
This variable is provided to specify the maximum message size that is allowed to be processed and delivered by the SMTP/MIME MTA during inbound processing. The MTA has implemented a mechanism similar to what sendmail does for a non-ESMTP connection when maximum message size is reached. For example, the MTA accepts the complete message in the inbound work queue and the inbound converter determines if the maximum size was exceeded. If exceeded, the inbound converter initiates a non-delivery. Non-delivery indicates a "Max Size exceeded" error reason.

**Note:** The value is specified in kilobytes even though the non-delivery may indicate the number in bytes.

The value specified by this variable is approximate. Headers and other protocol overhead are included in the message size when the SMTP MTA evaluates whether the message exceeds the maximum. If the variable does not exist or the value equals "0", there is no size limit for the inbound message, and the SMTP/MIME MTA accepts an inbound message of any size.

**SMTPMTA_IPPORT**
This variable allows you to assign an alternative listening port other than port 25. For example, a customer can use a third-party application to check all inbound mail before it enters Notes. This application listens on port 25 for inbound mail after checking the message for viruses or spam. It sends it to the relevant mail system on a different port, which is configurable using this INI variable. Example: SMTPMTA_IPPORT=26

**Note:** Be sure to use a port that is not is use or reserved for use by another process, and make sure the sending SMTP implementation uses the new port to communicate with SMTP/MIME MTA.
SMTPMTA_OUTBOUND_LINE_LENGTH
This variable sets a maximum line length for the body of outbound messages. If omitted, the default is 75 characters. This is useful when the message contains long lines of text without spaces, for example, URLs. Example: `SMTPMTA_OUTBOUND_LINE_LENGTH=77`.

SMTPMTA_STRIPADDRESS=1
This new variable lets you activate or deactivate stripping of phrases and comments from the address of inbound messages. Prior releases of the MTA would automatically strip the phrases and comments from addresses of inbound messages.

Support for the following NOTES.INI variables has been added starting with Domino 4.6.3:

SMTPMTA_REJECT_RELAYS=1
This prevents the MTA from performing relays. The MTA does relays if an inbound message is sent to its IP address but is not addressed to the MTA’s list of Internet domain suffixes as configured in the Global Domain document. This does not prevent messages that are delivered to Notes and logically get relayed back out. See the `SMTP_OCH_REJECT_SMTP_ORIGINATED_MESSAGES` INI variable.

SMTP_OCH_REJECT_SMTP_ORIGINATED_MESSAGES=1
This prevents messages that Notes might automatically send out to the Internet using the MTA by rejecting all outbound messages that contain an SMTP Originator field. A message might get automatically sent outbound if a person document has a forwarding address that is an Internet address. This INI variable has the side effect that an inbound message that is just edited (Forwards and Replies cannot have the SMTP Originator field set so they are not affected) and sent back out to the Internet using the MTA, gets rejected since the message contains the SMTP Originator field.

ESMTPMaxInbMsgSize=nn
To configure the maximum inbound message size which the SMTP MTA transport will accept, add the following variable to the Notes.ini:

```
ESMTPMaxInbMsgSize=nn
```

where the value nn is the number of bytes in kilobyte increments. Please note that this value is an approximation as it includes the overhead of protocol headers.

When messages greater than the configured maximum are rejected, the SMTP MTA will log the following message,

```
"SMTPMTA: isesctl inbound SMTP session failed"
```

SMTPMTA_SUPPORT_EURO=1
To enable SMTP MTA support for the Euro character, configure the Notes.ini variable,

```
"SMTPMTA_SUPPORT_EURO=1"
```

There is one exception: If the language parameter is LT and mail contains ISO-8859-1 characters plus the Euro character, SMTP MTA always converts the Euro when present to 0x80, rather than the fallback character (??) even if the administrator does not set

```
"SMTPMTA_SUPPORT_EURO=1"
```

SMTPMTA_DATA_TIMEOUT
A Notes.ini variable, "SMTPMTA_DATA_TIMEOUT", expressed in minute increments has been added to configure the SMTP MTA 'End of body period' timeout in order to adjust to other SMTP hosts which are slow in responding and to avoid unnecessary resending of messages. In the absence of the Notes.ini variable, the default End of body timeout is 10 minutes.
**SMTPMTA_OCH_WRAP_LONG_WORDS=1**
Starting with Domino 4.63, SMTP MTA will no longer insert line breaks in long lines in mail which prevent URLs from functioning has been added. To deactivate this functionality use the Notes.ini variable "SMTPMTA_OCH_WRAP_LONG_WORDS=1"

**SMTPMTA_OUTBOUND_PAGE_LENGTH=[1- 998]**
A feature has been provided to configure the page length of outbound mail for unjustified text. To utilize this feature, include the following notes.ini variable where the value is the number of characters before a page break.
SMTPMTA_OUTBOUND_PAGE_LENGTH=[1- 998]

Please note:
a/ If this variable is not specified, the value specified, or defaulted, for SMTPMTA_OUTBOUND_LINE_LENGTH will be used.
b/ If a value greater than 998 is specified, the value specified, or defaulted, for SMTPMTA_OUTBOUND_LINE_LENGTH will be used.
The default value for outbound line length ("SMTPMTA_OUTBOUND_LINE_LENGTH") is 80 characters. If "SMTPMTA_OUTBOUND_LINE_LENGTH" variable is not present the default line length is 80 characters.

**SMTP_AVOID_LOCAL_QUOTES=1**
You may prevent SMTP MTA from quoting names with underscores in the local part of SMTP addresses in outbound mail through the use of the Notes.ini variable, "SMTP_AVOID_LOCAL_QUOTES=1"; and avoid misidentifying Notes domains with dots (eg "ABC S.A.") in header addresses as if they were internet domain names.

**SMTPMTA_AVOID_DELEGATE_PROBLEM=1**
This Notes.ini variable is used to prevent SMTP MTA from assigning a Notes Delegate user as 'from:' sender and generating a blank 'sent by:' sender in the SMTP headers of mail sent to internet by Notes Delegate users. To initiate this mail delegation handling requires configuration of a new Notes.ini variable, "SMTPMTA_AVOID_DELEGATE_PROBLEM=1"

**SMTP_EXACT_MATCH_ALL=1**
or
**SMTP_EXACT_MATCH_LOCALPART=1**
SMTP MTA has been corrected so it no longer processes inbound addresses with period as separator even though underscore is configured as domain separator when internet lookup on shortname field is enabled. To activate this processing you must add one of the following variables to the Notes.ini file:

SMTP_EXACT_MATCH_ALL=1
or
SMTP_EXACT_MATCH_LOCALPART=1

When Notes Ini variable SMTP_EXACT_MATCH_ALL is set, the entire name (in the form of local@domain) without any variation is referenced during lookup process; When Notes Ini variable SMTP_EXACT_MATCH_LOCALPART is set, only the local part of the recipient's name without any variation is referenced during lookup process.

**SMTPMTA_NO_INLINE_CONTENT_DISP=1**
The notes.ini variable, SMTPMTA_NO_INLINE_CONTENT_DISP=1, is used to disable the RFC 1806 support (which displays inbound mail as inline text instead of as an attached file) which was introduced in the R4.6.1 SMTP MTA.
Support for the following NOTES.INI variables has been added starting with Domino 4.6.4:

**SMTPMTA_NO_BP_SEPARATOR=1**
The NOTES.INI variable SMTPMTA_NO_BP_SEPARATOR=1 is used to turn off the generation of body part markers (black lines) in inbound mail.

**SMTPMTA_ALLOW_KNOWN_DOMAINS**
The variable SMTPMTA_ALLOW_KNOWN_DOMAINS supports an enhanced relay limitation mechanism that provides for configuration of domains for which relay is allowed. The variable is assigned a value of either zero or non-zero (ex. SMTPMTA_ALLOW_KNOWN_DOMAINS=1). If this variable is present and has a non-zero value assigned, then the following rules described will be enforced:

- Mail for a recipient will be rejected if the connecting host resides in an unknown domain and the recipient also resides in an unknown domain. A failure message will be sent to LOG.NSF when SMTP MTA rejects inbound mail for this reason.
- Mail for a recipient will be accepted if either the connecting host or the recipient resides in a known domain.

In addition to the "local" domain, all domains identified in the Global Domain record - Internet Domain Suffix List will be considered "known domains" when applying the rules described above. If the MTA decides that a disallowed relay is being attempted, it will return the following reply to the sending host:

"501 This MTA does not relay, from: [connecting host name] to : [recipient domain name]"

If local Mail Clients are utilizing dynamically allocated (DHCP) TCP/IP addresses, it may not be possible for the SMTP MTA to obtain the "domain name" of these Mail Clients via the Domain Name Service (DNS). Because the SMTP MTA may not be able to obtain the Domain Name for this local Mail Client, it will assume that this is a host in an unknown domain and possibly reject mail from it. It is therefore recommended that if such local Mail Clients are to be utilized, the Network Administrator configure the DHCP Server so that all IP Addresses it assigns are registered with the DNS and assigned a valid Domain Name.

Support for the following NOTES.INI variables has been added starting with Domino 4.6.5:

**SMTPMTA_MAPDELEGATE_INBOUND=1**
This variable will cause SMTP MTA to map From: and Sender: in inbound SMTP message headers to Principal: and From: (respectively) in received messages.

**SMTPMTA_ENABLE_FIFO=1**
This variable changes SMTP MTA processing of outbound mail in SMTP.BOX so it is FIFO (first in, first out). This change also requires the SMTP.BOX design to updated with a new 4.6.5 template.

**SMTPMTA_AVOID_GMTOFFSET=1**
This variable will cause SMTP MTA to preserve sender timezone in SMTP headers rather than a GMT offset.
Server

**Spam protection**

There are two mechanisms in place that provide Administrators with the ability to block unwanted mail, known as “Spam.” These methods provide different types of protection and can be used jointly or independently. The mechanisms are the **“Helo Verify”** option and the **“Denied Domain List”** option.

**Helo Verify**

Helo Verify “authenticates” the domain named in the HELO/EHLO command. It does this by verifying that the IP address used by a remote host is actually associated with the purported Domain Name that the host has supplied.

**Denied Domain List**

When the Denied Domain name feature is activated the following occurs:

- During HELO/EHLO command processing a Lookup of the “IP address” on the Denied Domain List is performed. If the IP address is found, the HELO/EHLO Command is rejected.
- During “Mail From” command processing a lookup of the originator’s “Domain Name” on the Denied Domain List is performed. If the Domain Name is found, the “Mail From” command is rejected.

The Denied Domain List is constructed only once at Transport Initialization time, it cannot be reconstructed at “reload” time. Construction of the Denied Domain List at Transport Initialization time consists of reading the Administrator supplied list of banned Domain names, and acquiring IP addresses for each of the banned Domain names.

**Technical Note**

In as much as the Helo Verify option and the Domain denial list features are implemented as discrete options, it is possible that an administrator might want to supply a Domain denial List and not have the Helo verify feature active. In this case it is possible that the alleged Domain name supplied in the Helo command is fraudulent and cannot be verified by the Helo command.

To insure that a fraudulent domain name for a denied domain is not allowed access to this MTA, lookups against the Domain denial list are done by IP address and not the supplied Domain name. To set the stage for this feature, at transport initialization time, all the Denied Domain names in the Denied Domain List have their IP addresses acquired through DNS calls and stored in the completed Denied Domain List. Thereafter at call establishment time, the caller’s IP address is used as the trusted value to search the Denied Domain List.

Administrators should be aware that there is some overhead incurred at transport initialization time when acquiring the IP addresses for entries named in the Denied Domain List. Also, administrators should be aware that an inordinate amount of time may be spent completing this list if there are a number of non-existent Domain Names present in the list.
Option Configuration

Helo Verify and Denied Domain Lists are independent of each other, either one or both can be selected. Activation of these features is described below:

- **SMTPMTA_HELO_DOMAIN_VERIFY** Setting it to any non-zero value enables HELO domain verification. If it is set to zero or not present, it cannot accept or relay mail from any other MTA.

- **SMTPMTA_DENIED_DOMAINS** is a Notes .INI variable that is the PATHNAME of an ASCII file containing domains to prevents from sending mail. If it is NULL or not present, mail is accepted promiscuously.

For example: `SMTPMTA_DENIED_DOMAINS=C:\Notes\[filename]`
where the domain list file contains:

spam.lotus.com
harry.knownspammer.com

No messages are accepted from the above named domains.

Server

**Support for Euro currency symbol added to SMTP MTA**
The ability to send and receive the Euro currency symbol over the Internet has been added to the SMTP MTA in Domino 4.6.3. This support is enabled by adding the following line to the notes.ini:

`SMTPMTA_SUPPORT_EURO=1`

The table below describes how the SMTP MTA will behave:

<table>
<thead>
<tr>
<th>SMTPMTA_SUPPORT_EURO</th>
<th>Language parameter</th>
<th>Notes Message</th>
<th>Character Encoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Western European without Euro</td>
<td>ISO-8859-1</td>
</tr>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Western European with Euro</td>
<td>ISO-8859-1*</td>
</tr>
<tr>
<td>Enabled</td>
<td>LT</td>
<td>Western European without Euro</td>
<td>ISO-8859-1</td>
</tr>
<tr>
<td>Enabled</td>
<td>LT</td>
<td>Western European with Euro</td>
<td>Windows-1252</td>
</tr>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Central European without Euro</td>
<td>ISO-8859-2</td>
</tr>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Central European with Euro</td>
<td>ISO-8859-2</td>
</tr>
<tr>
<td>Enabled</td>
<td>LT</td>
<td>Central European without Euro</td>
<td>ISO-8859-2</td>
</tr>
<tr>
<td>Enabled</td>
<td>LT</td>
<td>Central European with Euro</td>
<td>Windows-1250</td>
</tr>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Cyrillic without Euro</td>
<td>KOI8-R</td>
</tr>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Cyrillic with Euro</td>
<td>KOI8-R</td>
</tr>
<tr>
<td>Enabled</td>
<td>LT</td>
<td>Cyrillic without Euro</td>
<td>KOI8-R</td>
</tr>
<tr>
<td>Enabled</td>
<td>LT</td>
<td>Cyrillic with Euro</td>
<td>Windows-1251</td>
</tr>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Greek without Euro</td>
<td>ISO-8859-7</td>
</tr>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Greek with Euro</td>
<td>ISO-8859-7</td>
</tr>
<tr>
<td>Enabled</td>
<td>LT</td>
<td>Greek without Euro</td>
<td>ISO-8859-7</td>
</tr>
<tr>
<td>Enabled</td>
<td>LT</td>
<td>Greek with Euro</td>
<td>Windows-1253</td>
</tr>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Turkish without Euro</td>
<td>ISO-8859-9</td>
</tr>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Turkish with Euro</td>
<td>ISO-8859-9</td>
</tr>
</tbody>
</table>
**Server**

**Verify and expand features**

Support for the SMTP VRFY and EXPN commands have been provided as described below. To use this feature you must set two Notes .INI switches in the NOTES.INI file (SMTPMTA_VRFY=1 and SMTPMTA_EXPN=1) to use VRFY and EXPN respectively. By default this functionality is turned off to avoid the overhead of loading Address Services and the routing tables into the transport handlers (and as a "security" feature).

1. SMTPMTA_VRFY=1 and SMTPMTA_EXPN=1 to use VRFY and EXPN respectively. By default this functionality is turned off since the VRFY and EXPN command adds additional processing overhead.
2. The SMTP MTA implements the VRFY and EXPN command to support user names and group names only.
3. These commands do not support DBCS or 8-bit user names. Requests that are received that have DBCS or 8-bit user names will be rejected.
4. The SMTP MTA resolves VRFY/EXPN requests for user and/or group names that are in the local server's Name and Address book(s). User and/or group names therefore must be located in a NAB (or cascaded NABs or Master Address Book) on the SMTP MTA server in order to be considered local.
5. On successful completion of a VRFY, the SMTP MTA returns a 250 response with the user's Internet address constructed as user name that was passed with the VRFY command followed by the Internet domain as configured in the domain suffix list. If the VRFY command provides a fully qualified address (e.g. Joe_Smith@lotus.com), then upon successful completion, the MTA returns a 250 response that contains the user's fully qualified Internet address as submitted with the VRFY command.
6. The VRFY command accepts requests to verify user names only. Requests to VRFY groups (lists) will cause a return of error "550 groups is a group, not a user".

---

<table>
<thead>
<tr>
<th>Enabled</th>
<th>LT</th>
<th>Turkish without Euro</th>
<th>ISO-8859-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enabled</td>
<td>LT</td>
<td>Turkish with Euro</td>
<td>Windows-1254</td>
</tr>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Baltic Rim without Euro</td>
<td>Windows-1257</td>
</tr>
<tr>
<td>Disabled</td>
<td>LT</td>
<td>Baltic Rim with Euro</td>
<td>Windows-1257</td>
</tr>
<tr>
<td>Enabled</td>
<td>LT</td>
<td>Baltic Rim without Euro</td>
<td>Windows-1257</td>
</tr>
</tbody>
</table>

*If the language parameter is LT and mail contains ISO-8859-1 characters plus the Euro character, SMTP MTA always converts the Euro (when present) to 0x80, rather than the fallback character (?), even if the administrator does not set "SMTPMTA_SUPPORT_EURO=1" in the notes.ini.

Various Character Set Groups are used in the table above. Samples of the languages found in these groups are:

- Western European - French, German, Italian, Portuguese, Spanish ...
- Central European - Czech, Hungarian, Polish, Romanian, Slovenian ...
- Cyrillic - Russian, Ukrainian, Bulgarian ...
- Baltic Rim - Estonian, Latvian, Lithuanian ...

NOTE: Some mail systems and operating systems themselves will not be Euro compliant.
7. The EXPN command accepts requests to expand lists only. Requests to EXPN user names causes a return of error "550 username is not a valid Group".

8. In the case of a multiline reply (normal for EXPN) exactly one mailbox is specified on each line of the reply. In the case of an ambiguous request, for example, "VRFY Smith", where there are two Smith's the response is "553 Smith is not unique".

9. The SMTP MTA does not expand nested group names. That is, if a group contains groups, the SMTP MTA returns the unexpanded nested group names along with any user names.

10. The EXPN command supports Notes groups that are defined as "Multi-Purpose" or "Mail" only.

11. The SMTP MTA currently supports an Internet Address Lookup feature that allows a user to specify a fully qualified Internet address (for example, mpc@company.com) in the short name/Internet address field. If a VRFY command does not provide the domain suffix (for example, VRFY MPC) then the MTA cannot successfully verify the recipient. Alternatively, the administrator can include the local portion (for example, MPC) in the Short name/Internet address field or the alias field.

Note: There are known problems using the VRFY/EXPN feature of SMTP MTA on NT 3.51. NT 3.51 is not a certified SMTP MTA server platform.

Server

Server.Planner overview and system requirements

Lotus Domino Server.Planner

Domino Server.Planner is a capacity planning tool. It is a Notes application used to identify benchmarked server configurations that support specified workload requirements for Domino servers.

Server.Planner provides information in several formats, but with primarily two viewpoints:

- Server configuration recommendations that satisfy server workload requirements.
- Graphical performance analysis and comparisons.

Documentation for Server.Planner is supplied in a Notes database titled Domino Server.Planner User Guide. The database (dspug.nsf) is located in the Notes\Data directory.

The first time you use Server.Planner, you need to create a database with the appropriate Server.Planner template. These Notes database templates are automatically installed in your Notes\Data directory.

- dspv.ntf (Vendor)
- dspa.ntf (Analyst)
- dspd.ntf (Decision Maker)

Domino Server.Planner requires three kinds of databases:

- Vendor Database(s) - obtained from the NotesBench consortium
- Analyst Database(s) - created from the dspa.ntf template
- Decision Maker Database - created dynamically by Server.Planner

A sample vendor database, cpa.nsf, is also included for your use. It's located in the Notes\Data directory with the templates. (Optional)

This application requires:

- Notes 4.6 or later
- Windows 95 or Windows NT 3.51 or later
- Lotus Components 1.2 or later (for graphical information)
Client, Server

**Beta and custom builds containing scripts**

All Notes 4.6 beta and custom builds released between June and September 1997 that have been installed in your environment that contain scripts, will not load Isxodbc when upgraded to 4.6 Gold, 4.5.3 Gold, or replicated to 4.5.1 or earlier builds unless the scripts are recompiled.

Client, Designer, Server

**Euro display varies by code pages on Microsoft Windows platforms**

Under Windows, one can use the Alt+0128 key sequence to enter the Euro character.

**Microsoft patch resolves a previous font issue:**

In the current Microsoft font patch available at the release of Notes 4.6.3, the Euro-symbol for the 1251 code page has been correctly placed at location 0x88. This Microsoft patch has eliminated the issue below, which manifested itself in Notes R4.6.2. For this reason, customers are advised to get the latest Windows font patches from Microsoft.

Lotus testing found that Notes was working correctly for the codepages 1250 - 1258 as the compose sequences were correct. However, there was a problem displaying the Euro in codepage 1251 because the Microsoft font patch had the Euro-symbol for 1251 code page at 0x80 instead of 0x88, where Microsoft explained it to be.

Codepages 1250 - 1258 all had the Euro symbol placed in the same place at 0x80, except for the codepage 1251 which had the Euro stored at 0x88. If you switched to codepage 1251 and to the Cyrillic settings you would experience problems or apparent corruption of the Euro symbol.

Client, Designer, Server

**Euro symbols and printing**

Lotus Quality Engineering has verified that Notes supports Euro currency printing. Euro printing depends on variants of each customer’s environment:

- Operating System:
  Per the Microsoft Web site, NT and Windows 95 or Windows 98 require an MS support package for the Euro.

- The printer font has to support the Euro symbol.
  Per the Microsoft Web site **, Microsoft recommends that users discuss these issues with their printer vendor.

** Quote: “Even with operating system support, problems may arise while printing the Euro symbol if built-in printer fonts do not support the symbol. When a font is present on both the printer and the computer, the font in the printer will be used by default to increase printing speed. If the printer font is not updated to include the Euro a box will be printed instead of the Euro symbol. Applications can work around this problem by sending a bitmapped image of the Euro to the printer, or by not using the printer’s built-in fonts (if allowed).”**

Please refer to the Microsoft Web site for further information.
Client, Designer, Server

**OIVT (Inso Viewer) supports new Euro currency symbol**

Lotus Quality Engineering has verified the viewer in Notes 4.6.2 supports the new Euro currency symbol. In order to display the Euro currency symbol in NotePad, Word, Notes, or other applications running on the Windows platform, the necessary Font support must be added to Windows itself. This is done by downloading and installing one of the following patches.

**Windows NT 4.0 Euro currency symbol support upgrade:**


**Windows 95 Euro currency symbol support upgrade:**


Once this is installed, the Euro symbol can be entered via the Alt+0128 keystrokes. NOTE: you must use only one of the following fonts:

Courier New, Arial, Times New Roman

Lotus Notes will automatically handle the symbol correctly (using one of the fonts specified above). Import and export will also work, as will viewing of an attachment.

---

**Client, Designer, Server**

**With Russian keyboards, type Alt+0136 key sequence to create the Euro character**

With your keyboard set as Russian, you have to type the key combination Alt+0136 in order to enter the Euro symbol character. You cannot enter the symbol using the Alt+F1 composition table.

As of the release of Notes 4.6.3 this issue is being examined by Lotus Quality Engineering, SPR# SWAE424GD8.

---

**Server**

**New Procedure: Using Web server wide custom response forms**

The DOMCFG.NSF database ACL can now be set to "no access" with "read public documents" enabled. Web server wide custom response form settings will be accessible for any user (without exposing any other view, form or document in DOMCFG.NSF). The server administrator must follow the steps listed below to enable this behavior:

1. Upgrade to the Release 4.6.4 (or later) Domino Server.
2. Replace the DOMCFG.NSF design with the latest DOMCFG.NTF.
3. Edit and save all existing documents in the "Error Message Mapping" view of DOMCFG.NSF. A $PublicAccess = "1" item will be added to those documents.
4. Ensure your custom response forms are "Available to public access users" (check the checkbox on the form property "access" tab of each of your custom response forms).
5. Ensure the database in which each custom response form resides has its ACL set to allow "read public documents".
Details - New DB2 LotusScript Extension available
The DB2 LotusScript Extension (DB2 LSX plug-in) provides native access to DB2 through the DB2 CLI Interface. Based on the LotusScript Data Object, the DB2 LSX is a set of three classes that access DB2 data as well as expose DB2 extended functionality (such as support for DB2 user defined types and DB2 large objects).

The DB2 LSX provides access to IBM DB2 databases via the DB2 Call Level Interface (DB2 CLI). DB2 CLI is based on the X/Open Call Level Interface specification.

The DB2 LSX provides data access classes that are similar to the LotusScript Data Object (LS:DO) classes - Connection, Query, and ResultSet - and more. New extensions that are unique to DB2 provide support for DB2 user-defined types and large objects (LOBs).

You can now get large data objects from DB2 and incorporate them in your Lotus Notes applications, using the new GetChunk and GetValueAsFile methods. You can update data in DB2 databases from your Notes applications with the new AppendChunk and SetValueAsFile methods.

With new constants added to the FieldInfo, FieldNativeDataType, and FieldExpectedDataType methods, you can identify distinct (user-defined) data types, GRAPHIC, VARGRAPHIC, LONG VARGRAPHIC, BLOB, CLOB, and DBCLOB columns, and get or set DBCLOB columns.
Chapter 3 - Troubleshooting

Install Issues

Server

Delete domino.cnf file before upgrading Domino 4.5x to 4.6x on Solaris platform
Administrators should delete domino.cnf before performing an upgrade from Domino 4.5x to Domino 4.6x on the Solaris platform. If not, different file ownership for domino.cnf between release 4.5x and 4.6x may cause the HTTP server task to fail.

Server

Domino 4.6.2 (and later) server setup of default named network
Starting in Domino Release 4.6.2, server setup updates the server record to a default named network, even if during the registration process a different named network was specified. For example, a first server setup configured for TCP/IP has the default network name of "TCP/IP Network" in the Network section of the server document in the Public Name and Address Book. If you have a different network name within your domain, you need to manually edit the network section of the server document. This also applies to additional server setups. After the additional 4.6.2 Domino server setup has completed, the default network name is still "TCP/IP Network" if setting up on a TCP/IP port.

The secondary Notes name server process used in conjunction with TCP/IP during an additional Domino server setup does not function. For example, when setting up an additional server with a TCP/IP port, if the server cannot be found, you are prompted with a dialog box entitled "TCP/IP Port Setup." Entering information in these fields currently are not read and setup is unsuccessful.

Server

Installing a partitioned server
When installing a partitioned server on Windows NT 4.0, either Intel or Alpha, the Launch Domino Server button does not work properly. You are prompted to complete the workstation setup before the server can be launched.

The workaround is to choose the Exit to Workspace button to be brought to the server administrative client, or close the dialog box and choose Start - Programs - Lotus Applications - Lotus Domino Server to launch the server.
Notes for OS/2 installation
Entry fields might not be updated properly when you install Notes for OS/2. The display that indicates which modules you want to install and where you want your Notes program and data files to be placed has a problem. If you look at the fields, the Notes data path entry is last. Typing into this field does not update it, causing your NOTES.INI file to be placed in the default directory of c:\notes\data with the contents: [Notes.ini].

As a workaround, update the data path first if you want the data path to be other than the default path. If you accept the default settings and select the modules you wish to install, installation is successful and your NOTES.INI file contains the appropriate directory and kit type.

Notes Uninstall workaround
When running Uninstall to remove Notes directories and files, access is denied to the following files if the Single Password Logon feature was selected during the install:

<table>
<thead>
<tr>
<th>Platform</th>
<th>Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>Win32</td>
<td>nls.exe and nslsvc.exe</td>
</tr>
<tr>
<td>Alpha</td>
<td>als.exe and aslsvc.exe</td>
</tr>
</tbody>
</table>

To delete the remaining Notes executables:

1. Open Control Panel.
2. Click Services and disable the Single Password Logon service.
3. Re-boot your PC and you have access to delete these files.

Server setup and LAN ports
When you run the Domino server setup using the Server setup database (SETUP.NSF), Setup enables all LAN ports available on the platform when the program starts. If you set up an additional server, Domino chooses one of these ports to connect to the main server. If that network protocol is not correctly set up on the platform or if the server is not listening on that protocol, the connection fails. If this failure occurs, you can modify the setup information.

To use a different port, choose the Advanced setup option on the second screen and customize the Ports on the fourth setup screen. Disable all ports except the port you want Domino to use and proceed with the setup. You can also choose to keep multiple ports enabled. After setup completes, you can re-enable any disabled ports.
Workstation Issues

Client

'Object variable not set' when choosing 'Reduce to bookmark' on some documents
For some documents in a database created using the Personal Web Navigator 4.6 template, an 'Object variable not set' error displays when the document is selected and the 'Reduce to bookmark' action is chosen (via button or menu choice). This behavior has been observed on UNIX, Windows NT, and Windows 95 platforms.

As a workaround, open the URL again and click the Add Bookmark button. Select the Favorites and Bookmarks folder. The URL may not actually be reduced to a bookmark, but it can now be stored with your bookmarks.

Client

Backwards compatibility of 256-color text support
Text in a document or form that uses a color other than one of the 16 VGA colors might not be readable in previous versions of Notes. The fix to display the text color correctly is applied to versions 4.15 and 4.52.

Client

256-color palette is not supported with Number 9 Imagine 128 II video driver for Windows 95
If you use this palette with this driver, the color that you choose on the palette does not appear in the color box; however, the item you chose is changed to the correct color.

Client

Accelerator keys
- Pressing the Shift key plus the End key on the numeric keypad does not highlight text. SPR # KRSH32UJJF
- The Plus (+) and Minus (-) keys do not expand or shrink views. Use the Plus (+) and Minus (-) options indicated as SmartIcons.

Client

Attachments
If you edit and save a launched attachment, Notes does not save the changes you make to the attachment. Instead, it saves the changes in a temporary file created in the Temp directory. After you exit the launched application and Notes, Notes deletes the file. SPR # PJAN38X2NK

Client

Database publishing
Attempting to publish a database might fail initially. If it does, create a Database Library, from the Database Library template, then publish the desired database.
Client

**Editing fields in the Name and Address Book**
Clicking on a field with a default value with the right-mouse in the Name and Address Book might cause Notes to hang.

Client

**Fonts**
On some UNIX platforms, fonts might appear jagged, especially in larger font sizes. To correct this problem, make a local copy of the Notes resource file stored in the 
`/opt/lotus/notes/4100/<platform>/res/C` directory and select a different default font.

Client

**Importing a FrameMaker document**
When you import a FrameMaker document, Notes replaces all quotation marks (" or ") with spaces. To correct this problem, you must reenter the quotation marks manually. SPR # WBRO2WALES3

Client

**International code pages**
You cannot change to language-specific code pages to support the importing of documents created in other language. Most European language files should import correctly. Asian or Eastern European language files do not import correctly. SPR # STHR352MQZ

Client

**Keymap Files**
Existing customer keymap files may be obsolete as Notes keymap files were enhanced for Release 4.1. Lotus recommends that you use the default keymap and, if necessary, update this new file rather than customize older versions of keymap files that you have created. SPR # SHOR33WRQY

Designer

**Menu item missing**
When a design element is highlighted, the Design menu item might not be available. To view the Design Document properties, perform either of the following steps:

1. Use the Edit - Properties menu item
2. Open and Close the design element. This step restores the focus and enable the Design menu item.
Client

**OLE**
OLE is not supported on the Notes for UNIX platform. As a result, the following limitations exist:

- Notes for UNIX users can open Notes documents that contain OLE links but cannot edit them. You cannot launch the appropriate application in UNIX if the document contains the application icon.
- UNIX users cannot open forms that launch an application; attempts to do so generate an error message.
- The Lotus SmartSuite 96 Library (R4) and the Microsoft Office Library (R4) templates contain forms that automatically launch applications. UNIX users attempting to access these forms receive an error message.

Client

**Printing**
- Colored text prints in black on monochrome PCL printers. SPR # NNGG2ZVSCW
- Page Cropping does not function properly on printouts. SPR # NNGG3BEQJ9

Client, Server

**Publishing databases using the UNIX client**
To publish databases using the UNIX client, the Database Library should be on your desktop. Select File - Database - Create, select the Database Library template, and create the database. If the database does not exist on your desktop, an error message is displayed.

Client

**Running multiple Notes clients on one UNIX workstation**
If you want to run multiple clients on one UNIX workstation, Lotus recommends that you set the Notes_ISOLATION environment variable in the UNIX shell of every UNIX account that is running the Notes client. This environment variable lets multiple Notes clients run on the same workstation. You can isolate one Notes client termination so that it does not affect the other Notes clients on the same workstation. If you do not set this environment variable, one Notes client termination hangs other Notes clients on that workstation.

Set the Notes_ISOLATION environment variable in your .cshrc, .profile, or .kshrc file so that you always run Notes with the environment variable set. All Notes clients on a workstation have the environment variable set for Notes_ISOLATION to work.

If you run the C shell, add this line to your ~/.cshrc file:

```
setenv Notes_ISOLATION 1
```

If you run the Bourne shell, add this line to your ~/.profile file:

```
Notes_ISOLATION=1; export Notes_ISOLATION
```

If you run the Korn shell, add this line to your ~/.kshrc file:

```
Notes_ISOLATION=1; export Notes_ISOLATION
```

To run multiple Notes clients on one Sun workstation, reconfigure the UNIX kernel for the workstation using the settings recommended for a Sun Solaris Notes server. See specific requirements for the Sun Solaris platform in the Platforms and Requirements view of "Things You Need to Know."
Client

Tables
- When you edit a table, you cannot place the mouse cursor in a table cell that has "hide in edit" set for that cell. Highlight the whole table and unset the Hide feature to have access to the cell. SPR # JBLY2XTTHN
- Using View - Show - Page Breaks might corrupt your table. Exit the document and return to it with View - Show - Page Breaks turned off. SPR # KREE2KYQMD

Client

Type mismatch (GetCurrentLocation) message performing Web browse
This intermittent error can occur on the UNIX Notes client when opening or reloading a web page. Clicking OK clears the error. As a workaround, use the Release 4.5 Web template if you were previously using the Release 4.5 UNIX Notes client.

Client, Designer, Server

UNIX compatibility
- Since UNIX begins system variable names with the dollar sign ($), do not use $ in the names of databases created in UNIX. Notes does not recognize a database filename that includes a $.
- Notes does not recognize the home directory symbol (~); do not use this symbol when you complete dialog boxes or create directory links.
- Do not create two databases with the same file name but different case; for example, "data.nsf" and "DATA.nsf". If you do this, you can place only one database on the workspace at a time and cannot create a full text index on either database.
- You cannot import or attach a UNIX file into Notes that includes a file name with an embedded space or a dollar sign ($). You can export these files, however. You can import UNIX files with names that include an underscore (_) or that begin with a period (.).
- You cannot use the UNIX backslash key (\) to escape special characters in file names displayed in dialog boxes.

Client

User interface
When you set User Preferences by choosing File - Tools - User Preferences, you must select the advanced options with the mouse. Using the keyboard arrows to scroll through the advanced preferences does not work properly.

Client

Viewers
- All documents are in draft mode. SPR # AMII34EJXH
- Embedded graphic objects do not display. SPR # MLOT3BZ4WQ
Designer

**Workspace hourglass**
For some events, Notes does not display the hourglass pointer. For example, if you select a Form in the Design View pane and double click the Form to edit it, Notes does not display an hourglass to indicate that the Form is opening. SPR # MQE3HZHT2

Client

**Workspace**
- If you start a replication process or a database copy on a Solaris Intel Edition CDE (Common Desktop Environment) and then decide to switch to another workspace on CDE, the application will appear on the current workspace and hang your session when Notes completes the process on your first workspace. Keep your focus on the original workspace until the process terminates, then proceed to the next workspace.

- Do not switch workspaces on a Solaris Intel Edition UNIX platform using CDE while Notes is processing a command (for example, File - Replication - New Replica). If you do switch, the Notes client attempts to appear in the active workspace when the process completes. This Notes client is blank and can be dismissed only by terminating the Notes processes.

Client

**XResources**
- Notes uses generic Xresource or Xdefault settings and the specific settings that you can customize by editing the /opt/lotus/notes/4100/<platform>/res/C/Notes file and making a local copy in the your home directory.

  The Notes file contains X settings and documentation for the use of each setting. Most settings are defaults that provide you with the best presentation of the Notes application for the supported platform and window manager. The default font scaling is an option can change.

  You can adjust notes*fontScalingFactor: 1.0 to provide larger fonts instead of using the Notes Preferences Large Font option.

- This release does not support the following command line options and XResources:
  - -geometry/*geometry
  - -keyboard/*keyboardName
  - -selection Timeout/*selection Timeout
  - -xnlanguage/*xnlLanguage

Client

**Backward compatibility issues between Office 97 and Office 95 OLE objects**
OLE objects created by Microsoft Office 95 applications (Excel, Word, and PowerPoint) can be opened and edited with Microsoft Office 97 applications; however, once an Office 97 application has been used to edit an Office 95 OLE object it can no longer be opened and edited back in an Office 95 application. Notes displays the error "Object's application or class is not available" because the format for the OLE object was converted for Office 97 applications. Contact Microsoft for additional information.
Client

**PowerPoint 95 issue under Windows NT 4.0**

Creating a PowerPoint 95 Presentation in Notes 4.6.2 under Windows NT 4.0 (this is not a problem with Windows 95) results in the following error:

initialization of dynamic link library failed c:\winnt40\system32\mso95fx.dll.

This error occurs because of the way Powerpoint 95 implemented Notes FX. This problem is fixed in Powerpoint 97. If you do not have Powerpoint 97, you can either press OK to get by this error or disable Notes FX from this form. To disable Notes FX, edit the form and select Design- Form Properties. Then select the Defaults tab and check off Disable Field Exchange.

Designer

**Size Below field**

This option is available only for OCX controls (such as Lotus Components). When you edit a document, the OCX automatically sizes to fit below the fields. If there is no layout region above it, you see no difference between this and Size to window. You need a layout region above it in its original form.

Client

**Size Object to Window**

If the object embedded in a document is an OCX control (such as one of the Lotus components) and if a document is edited and this option is selected for the OCX, the OCX is automatically sized to fit the window. If the object is an OLE object, you must edit the OLE object when the document is edited for the object to display sized to fit to window (for example, edit or Double - Click to edit).

Client, Designer

**Update from document**

This option is available only if an object is embedded in a form. When you select this option, the object is updated based on changes with the document created using this form. Follow these steps:

1. Embed either an OLE or OCX to a form and choose the "Update from document" option.
2. Create a document with this form.
3. Edit the data in the object from within the document, then close and save the document. When the document is reopened, you see the data based on what was in the document, and not what was in the original form.

Client

**Document memo editor**

- When you create a mail memo with either Microsoft Word 95/97 or Lotus Word Pro 97, the specific document mail editor is used. When you receive and open a mail memo and your document mail editor matches the one with which the document was first created, then that document mail editor is used; otherwise, Notes is used as the default mail editor.

- Opening a mail document created in Word 95/97 or Word Pro 97 launches the specific application into edit mode.
● Using the Preview Pane to preview a memo created with Word 95/97 or Word Pro 97 shows only rich text data. Clip art and OLE objects does not appear in Preview mode (only rich text appears in Preview mode). Also, you cannot edit a document from the Preview mode pane.

● You might experience compatibility issues with menus and loss of data when using Microsoft Word 95 objects with Microsoft Word 97 objects. Contact Microsoft for issues related to using Word 95 objects with Word 97 objects and vice-versa.

● Word Pro 97 printing issues - margins
   Left and Right margins are cut off when you print from Word Pro 97 and use the default OLE smartmaster for Word Pro 97 (olesrv.mwp). To change these margins, you need to open Word Pro 97 separately and edit the Word Pro smartmaster, as follows:
   1. Launch Word Pro 97.
   2. Select the smartmaster template, OLESRV.MWP, and select OK.
   3. Select File, Document Properties, Page and make sure all the margins are set to one inch.
   4. Select File, Save and save this smartmaster. Now when you use Word Pro 97 as your Document Memo Editor in Notes 4.6.1, you now have 1-inch margins. SPR # JTHN3GG9S9U

● Word Pro 97 printing issues - dialog box
   When you use Word Pro 97 as the primary document memo editor, you print from Notes; however, a Word Pro 97 print dialog box appears. Verify that the Word Pro settings are correct and then select Print. Selecting cancel from the Word Pro print dialog box cancels the WordPro print job and print only the OLE object.

● Printing in Edit mode
   When the Document Memo is in edit mode, selecting File - Print creates two print jobs. The first printout includes the salutation, the OLE object rendition (a "picture" of the object that might not be the complete object's contents if larger than one page). The second printout includes the rich text version of the OLE object which is the complete rich text version of the object.

● Printing from a view:
   Printing from a view creates only one print job and includes the salutation and the rich text version of the OLE object. The OLE object rendition does not print.

Client

Word Pro 97 as the document memo editor
Word Pro 95 is not supported as a Document Memo Editor. Word Pro 97 is supported.

Client

Java Applet Compatibility with Notes 4.5
   ● There is a known problem in Notes 4.5x releases prior to 4.5.3. The Notes client crashes if you copy an applet in a Notes document that was created in Notes 4.6.2. This crash also occurs with Notes operations that involve copying the document, such as the Forward, Reply with History, and other copy operations. This has been fixed in Notes 4.5.3. SPR # ATAI3KWBAY.
   ● Java applets imported or linked from a Web server in Notes 4.6.2 do not activate in Notes 4.5.
Client

**Helpful hints about Java**

1. URLs used by applets might not make sense in the context of a Notes document. For additional information, see the sections on using getDocumentBase and getCodeBase under "Tips and troubleshooting for Java applets" in the Notes Help database.

2. When you are Importing an Applet from the file system, you can press the button with the folder icon to browse for a file containing the Applet's class. When you select a file, Notes uses the file's base filename as the Applet's Class name. If the Applet class has a different name, you should change the Class name to reflect this.

3. When formulas are used to set Java Applet parameters, the result of the formula must resolve to a text value, as shown in this example of a parameter with text and formulas: "This is a test" + @Text(@Abs(-4)).

4. Java applet parameter formulas are limited to certain actions -- typically ones that cannot have UI side effects. For example, @SetEnvironment is not allowed and gives a warning in the status bar.

5. The Clear/Clear All buttons have different functionality in the applet Refresh dialog box and the Reorganize dialog box. See the "Refreshing, reorganizing, and exporting applet files" section in Help for additional information.

6. Notes 4.6.2 is based on the JDK 1.1.5. There have been occasional instances of 1.02 applets obtained from the Web that failed to load correctly in Notes and in the 1.1 version of appletviewer. This is seen as a backwards compatibility problem with the underlying Java software.

7. If you attempt to cut and paste an embedded applet, you receive a dialog box that asks, "Do you want to replace this file with a new one?" If you select Cancel in this dialog box, the applet is pasted.

8. If Notes gets an error evaluating a Java applet parameter formula, it runs the applet and pass an empty value for the parameter in question.

Designer

**Java applet persistence issues**

1. Notes checks the state of a Java applet when using serialization before saving. This error could occur if your Java applet does not support serialization. Could also indicate that the serialization parameters were not setup properly. Check and ensure that the writeobject and object parameters for serialization were entered and that the values for both parameters are surrounded by quotes (for example: "data").

2. Editor access is needed to serialize/externalize embedded/linked Java applets in a Notes document or form that resides on a server (SPR #JTHN3REU8L).

3. Edits made in embedded or linked Java applets currently do not cause the document to be marked as having been edited. You have to save your document before exiting your document.
4. The Notes Java Debug Console has been enhanced in Notes 4.6.1 and now also offers a variety of debug levels. The default level is 0. A number from 0 to 9 can be entered into the console window. Higher debug numbers generates more information on the console and slows down the Java applet.

   0= default setting, provides short descriptions on archive parameters, security debugging, and resource and class loading.
   1= more description on archive parameters.
   2= more description on resource loading.
   3= more description on class loading.
   4 thru 8 = more description on security debugging.
   9= verbose setting.

Client

**Printing Java applets from a document or form**
If you print a document that contains a Java applet, a light gray box of the correct size is printed in place of the applet.

Client, Designer

**Store form in document is not supported with Java applets**
For Release 4.6.2, "Store form in document" is not supported with Java applets that use serialization or externalization parameters.

Client

**Linked Java applets do not reload in an encrypted field**
Linking Java applets into an encrypted field causes the applet to not initialize. Sometimes the linked Java applet initializes, however, pressing F9 to refresh or changing a parameter in the linked Java applet causes it to refresh and then it does not initialize and a "cannot initialize" error appears in the status bar. Imported Java applets do not experience this issue; it is only related to linking Java applets into encrypted fields.

Client

**Underlying Java runtime environment**
In Windows 95, occasional Notes crashes have occurred when opening, closing and editing documents or forms with embedded Java applets. This is probably caused by the underlying Java runtime environment and is similar to behavior observed using various Web browsers.

Client, Designer

**Unsigned is used as the applet parameter formula signature during form design**
Java applets parameter formulas evaluate during form design. For Release 4.6, Notes uses unsigned as the applet parameter formula signature during form design. In contrast, the signature of the author is used for the formula signature when the applet is within a document. A message is displayed on the status bar if the parameter formula violates the Workstation Security Execution Control List.
Microsoft Office library (R4.6) template

- Use the Microsoft Office Library (R4.6) template only to create new Office Document library applications. Upgrading existing applications from this template is unsupported.

- You are prompted twice to save when you select the action bar entitled "Save and Close" on a document created with Microsoft Excel, Word, or PowerPoint. SPR # JTHN3G7KF9

Turning Pass-Thru HTML on and off

Turning Pass-Thru HTML on and off can cause Lotus Notes to crash:

1. Edit a document and check the View - Show - Pass-Thru HTML menu option (turning it on).
2. Highlight existing text by either double-clicking on it, or pressing the mouse button and dragging over the text.
3. Turn on the Pass-Thru HTML menu option in the Text menu.
4. Select View menu - Show - Pass-Thru HTML (turning it off).

Horizontal rules

The current minimum height for a horizontal rule is .062". Conversion of a rule this height may not be thin enough for some applications. If this is the case, use passthru HTML for the Horizontal Rule and apply the SIZE attribute. (E.g., <HR SIZE=1>)

Edit - Undo is not available after creating a horizontal rule. To remove these elements you must highlight the horizontal rule and select Edit - Clear.

Lotus Notes crashes when selecting computer text

Lotus Notes crashes if you follow this sequence of events:

1. Edit a document and highlight a section of plain text.
2. Select: Create menu - Computed Text.
4. Press ESC to close (saving your work does not affect the abrupt termination).

Intermittently, the ESC key might become disabled after ESC is pressed a first time. If this happens, open the File menu and select Close. The application then abruptly terminates.

Multiple merges in table with Fit To Window Width turned off

In a table where "Fit Table Width to Window" is not set in the Layout folder of Table Properties, multiple merges can cause table corruption. The corruption occurs only if previously merged cells are included in a new merge. The workaround is to split the cells involved in the initial merge, and then merge the cells to achieve the desired results. SPR # ISTO3GLSHJ.
Nested tables not supported by Domino server or Designer client

Nested tables are not supported by the Domino server. In R4.5x, however, it was possible to create nested tables for the web. In Domino/Notes 4.6.2, the inner table is ignored as it is in the Notes client.

It is not supported to have a form with a table containing a rich text field, and the rich text in the document also contains a table. In the Notes client, the inner table is ignored, and the cells in a row become a stair-step. If you edit the document in Notes, the table in the document is discarded.

Domino/Notes 4.6.2 does not display this page the way 4.51c did. Nested tables happened to work in 4.5, but does not work in 4.6.2.

Preventing errors with tables in a document

When selecting View - Show - Page Breaks in a document containing a table with a merged cell, a table corruption can occur. You can correct this display problem by turning off Page Breaks.

When you copy a merged table, place the cursor outside of the table and then select the table. This step ensures that all attributes and formatting (including merged cells) are copied and pasted correctly.

Selecting text in a table when spell checking hangs Notes

Spell checking a highlighted table or selected cells in a table hangs Notes. Highlighting text outside of a table and running spell check works properly. The workaround is to run Spell Check without selecting text within a table. SPR # VPAA3E9M4V.

Deleting messages from Notes POP3 client does not delete the documents from the server

If you are using Notes to retrieve internet mail from a POP3 server, and you have chosen to “leave mail on server,” deleting messages from the Notes POP3 client does not delete the documents from the server. The next time you retrieve mail messages from the server, you receive the “deleted” messages again. Permanently deleting these items requires unchecking the “leave mail on server” option.
Domino Server Issues

Server

**Changes to documents in the Address Book**
When you make changes to documents in the Address book, it takes a few minutes for your changes to take effect. You can also restart the Domino server for your changes to take effect immediately.

Client, Server

**Remote server console and character display**
Various accented characters might not display properly in the Remote server console window on the Notes client. The characters affected are represented by a vertical line.

Server

**NSD on HP-UX requires GNU debugger and awk**
Executing nsd on HP-UX to diagnose Notes issues requires the GNU debugger and awk, called gdb and gawk. You can download the latest code release for this from:

```
ftp://prep.ai.mit.edu/pub/gnu
```

In order to compile the source for having a binary file adapted to the hardware, follow the instructions written in the readme file that accompanies this code. In general, it is as easy as executing the following commands (being root):

```
# cd <directory_where_tar_expanded>
# ./configure (to create a Makefile with information about the environment)
# make (to compile the code)
# make install (to place binary in /usr/local/bin, libraries and man pages)
```

Before executing nsd on HP-UX, do not forget to export NSD_HOME_DIR so that gdb and gawk are found in:

```
$NSD_HOME_DIR/bin/hpux
```

Server

**Displaying a Lotus Notes object**
For the following procedure to work properly, you must install the Notes Performance monitor. You install this feature during installation with the customized options menu, and selecting Notes Performance Monitor. By default this option is not selected.

To display a Lotus Notes Object, perform the following on partitioned servers:

1. Start the Domino server.
2. Exit to the DOS prompt.
3. Enter SET NOTESPARTITION=1
4. Start perfmon by typing PERFMON in the DOS window (not using a shortcut).
5. Lotus Notes object is now present.
6. Repeat steps 3 to 5 for each Notes partition incrementing the notespartition by 1.
HTTP Server Issues

Server

Access violations
If an access violation causes a server crash, Domino creates a .RIP file for troubleshooting purposes.

Server

Domino Server fails to shutdown when quitting the HTTP Web server task

Problem
Upon issuing the tell http quit command at the Domino server console, the HTTP Web server does not shut down.

Solution
The customer installs the Notes Performance monitor with the customized options, but the counters are not successfully loaded after the installation is complete.

Perform the manual installation of the counters as follows:

Installing Domino statistics as a Performance Monitor counter

1. If you installed the Domino server by using the standard server install option, complete the following steps:
   - Run the Install program again and select "Customize features - Manual Install."
   - Ensure that the install paths are the same as for the original server install.
   - Deselect all install options except for "Notes Performance Monitor."
   - After the Install program completes, restart the server.
2. Type the following command from the program directory on the server:
   
   notesreg.bat directory
   
   where directory is the full path to the program directory.
   
   For example, type the following:
   
   notesreg.bat C:\notes

If the above steps are omitted, not only are the counters not available; but also this adversely impacts the Domino server shutdown and HTTP. With HTTP loaded, the Domino server hangs upon shutdown. ( NT ALPHA).

As a last resort, should the above fail, run REGEDT32 and search for the key notesat with the View Find Key. Delete all occurrences of the notestat keys from the registry; then shutdown and restart the PC.

Note: The notestat key is added during customized installation of the server, by selecting the option Notes Performance Monitor.
JavaScript-enabled databases do not always display errors
For databases with "Web access: Use JavaScript when generating pages" enabled, formula errors are not always displayed to the user. For example, if you design a button to save the document to disk and then close the page, you should trap any possible errors from the file save before closing the window:

```javascript
x := @Command([FileSave]);
@if(@IsError(x); @Return(x); "")
@Command([FileCloseWindow])
```

MS Internet Explorer and browsing views
If you are using Microsoft Internet Explorer and you are not using release 3.02 or later of the browser software, you might have problems accessing some views on the Web server, for example, `http://host.db.nsf/($All)?OpenView`. Upgrade the release of Microsoft Internet Explorer to release 3.02 or later.

Target attribute to @URLOpen does not work with JavaScript-enabled databases
A popular tip is to use @URLOpen with target information added on to the end:

```javascript
@URLOpen("/mydb.nsf/myview/?openview" target="Nav3")
```

to redirect output to a frame. This works fine in 4.5x and in 4.6x with JavaScript-disabled databases.

It doesn't work in 4.6x with JavaScript-enabled databases, because we are no longer generating an `<a>` tag. Instead we reference a doclink event.

The right way to do this is to use pass-thru HTML to generate your own complete `<a>` tag.

This works for all cases listed above.

Unable to hide $$HTMLHead field when it gets its data from a rich text field
If the $$HTMLHead field on a form gets its data from a rich text field (that is, `@DbLookup(\"\",\"MyView\",""MyDocKey",""MyRichTextField\")`), the hide properties for $$HTMLHead have no effect on the field. There are two possible workarounds: make MyRichTextField of type text or hide contents of MyRichTextField.

Virtual servers and customizing error messages
When designing custom response pages for virtual servers, use the IP address rather than the name of the virtual server in the Mapping Error Messages document in DOMCFG.NSF.
Load HTTP before agent manager if using Java servlets on HP-UX

On HP-UX only, HTTP task should always be loaded before Agent Manager when using Java servlets on Domino servers. If Java servlets are enabled, place the HTTP task before the Agent Manager in the NOTES.INI task list. If you need to do a restart of HTTP without bringing down the entire Domino server, shut down both HTTP and the Agent Manager, then restart HTTP before the Agent Manager to resume server operation.

Database Log shows the Org and Org Unit 'swapped'

When a username exceeds 32 bytes, it is truncated for display in the User Activity Log. This is the central issue. A more specific issue which results from this is a particular case where the user's name is 17 characters long, the Organization identifier is 3 characters long, and the Org Unit is 2 characters long. In this case, after truncation for display in the activity log, the Org identifier is truncated to 2 characters. This violates the restriction that the Org must be at least 3 characters. This confuses Notes, which now views the truncated Org identifier as the Org Unit. When displayed, the Org name and the Org unit now exchange places.

Example:

"Camilla Davidsson/DS/PSV" will display as "Camilla Davidsson/PS/DS"

IMAP Issues

Enhancement for upgrade by mail

Lotus has enhanced the Upgrade by Mail feature to include an option to enable a mail file for IMAP use. To use this feature, select the field "Mail file to be used by IMAP clients" in the Upgrade Message form in the Public Address Book. Selecting this option enables folder referencing so you can access the mail file from an IMAP client.

IMAP and the use of short names in the Person Record

The IMAP server uses the Short Name field in the Person record for user authentication with the IMAP server. There might be cases where the short names are identical for two different records in the name and address book.

The administrator should complete the Short name field by using the first character of the first name, followed by the last name -- for example, jsmith. However, Notes users with similar first names and identical last names may have problems accessing their mail by using this short name as their IMAP client user name. For example, if you have Notes users named John Smith and Jane Smith, and you enter the short name "jsmith" for both of them, the IMAP server could reject the attempt to LOGIN and access their mail file.

Lotus recommends that the Notes administrator be aware of the use of short names for IMAP clients accessing the server and modify these names when necessary.
IMAP performance issue
When using IMAP on Release 4.6.1 server, you might experience some performance degradation when retrieving messages if the messages contain large attachments.

Unsupported IMAP SEARCH arguments
The IMAP server does not support the LARGER and SMALLER arguments for the SEARCH command.

Forwarded message
Note that if a message has been forwarded several times, certain clients will not be able to display all parts of the message. The 'undisplayed' parts will be the oldest parts of the message.

LDAP Issues

General
- The Public Address Book must be indexed prior to running any LDAP searches. If you have not performed this step prior to running an LDAP search, the first search might take a long period of time.
- Full international support is not available until the next release. However, certain browsers might be able to search using the Western European character set 8859-1.
- If a Person document contains a fully qualified e-mail address in the forwarding address field, an Internet client cannot perform e-mail searches against this field.
- If the "minimum characters for wildcard search" field in the server configuration document is set to 0, users can not search anything other than the first entry in the user name field.
- If the "minimum characters for wildcard search" field in the server configuration document is set to 0, the Name and Address Book must be full text indexed for LDAP searches to work properly.
- The Netscape Communicator client has a "doesn't contain" search option. This does not work properly when used as a first argument.
- Domino lets users have multiple e-mail addresses. Currently LDAP e-mail address searches only find the e-mail address that is constructed using the information from the SMTP Address conversion section of the Global Domain record.
- NLM Server requires a TCP/IP hosts file in order to form e-mail addresses correctly.
SMTP MTA Issues

Server

Inbound addresses may not be correctly rendered by SMTP MTA

Inbound From addresses with illegal phrase parts may not be correctly rendered by the SMTP MTA and, thus, will not be automatically replyable. A particular example is the following address with an RFC 2047 encoded phrase containing an unquoted period (which makes it illegal).

=\iso-8859-1?Q?Martin_J._D=FCrst?= <u1_user1@host.lotus.com>

When received inbound, the SMTP MTA applies double quotes to such an address in its entirety:

"=\iso-8859-1?Q?Martin_J._D=FCrst?= <u1_user1@host.lotus.com>"

This allows the inbound message to be delivered (rather than being rejected because of the illegal From address). Even though the From address cannot be replied to by just clicking the Reply button, the legal part of the address can still be copied and pasted allowing the user to reply "manually".

Server

SMTP address problem using New_Notes_DNParse variable

When using the NOTES_NEW_DNPARSE notes.ini variable introduced in R4.6.2 to resolve addressing issues with X.400 and SMTP addresses containing plus signs, there are issues with how the "quoting" of SMTP addresses are handled.

With the environment variable NOTES_NEW_DNPARSE enabled, send a message inbound to Notes where the From: Internet address contains forward slashes. The Notes Client does not apply quotation marks to this address properly, making it unreplyable. This means one cannot select the ‘reply’ option and have a properly constructed address be created.

A related problem occurs when an SMTP (Internet) From: address contains a period, as in: "Ends in Dot Jr."@host.lotus.com. With NOTES_NEW_DNPARSE set, the quotes are not retained. The address is not replyable because without the quotes it is an illegal Internet address. The address is therefore rejected by the SMTP MTA outbound process.
**Language parameter syntax for Macintosh attachment names**
The language parameter syntax for Macintosh attachment names `/macchar= or /mac=` are:

- **Example 1**
  If you specify `JP` in the Language Parameters field, then the MTA treats Macintosh attachment names as X-SJIS.

- **Example 2**
  If you specify `US/charset=US-ASCII/macchar=96` in the Language Parameters field, then the MTA treats Macintosh attachment names as Macintosh Roman character set.

The default parameters Macintosh character sets for the language parameters are found in this table.

<table>
<thead>
<tr>
<th>Language Name</th>
<th>Default Macintosh charset</th>
</tr>
</thead>
<tbody>
<tr>
<td>CN</td>
<td>X-GBK</td>
</tr>
<tr>
<td>JP</td>
<td>X-SJIS</td>
</tr>
<tr>
<td>KR</td>
<td>EUC-KR (KSC)</td>
</tr>
<tr>
<td>LT</td>
<td>ASCII</td>
</tr>
<tr>
<td>TW</td>
<td>X-BIG5</td>
</tr>
<tr>
<td>UN</td>
<td>ASCII</td>
</tr>
<tr>
<td>US</td>
<td>ASCII</td>
</tr>
</tbody>
</table>

**Non-ASCII Macintosh attachment names**
Specify a Macintosh character set in the Language Parameters field if you want to use non-ASCII Macintosh attachment names. The default Macintosh character set is determined from the `/charset` component of the Language parameter, according to the table in the Language parameter syntax for Macintosh attachment names release note. If you want to use another character set, you have to know what Macintosh character set is used in your country.

**Extend scaleability**
A NOTES.INI variable (`SMTPMTA_MAX_TASKS`) is present in current Domino releases to extend SMTP MTA scaleability. The maximum number of transport session handlers can be configured higher than the default of 16 (8 inbound/8 outbound) as long as the system resources allow. When the total number of transport session handlers configured is more than 16 for both inbound and outbound, this NOTES.INI variable has to be specified with the value calculated using the following formula:

\[
6 + (\text{total number of session handlers for both Inbound and Outbound Transport})
\]

If the total number of handlers needed for both Inbound and Outbound is configured for equal to or less than 16, there is no need to set this INI variable. But if either the inbound or outbound transport handlers is to be configured for more than 8, then the Input Validation statement of the field in the
SMTPServerFormSubform (currently defaulted to be 8) needs to be updated. For example, if 40 is the desired maximum number of session handlers to be configured, the Input Validation statement should be modified as noted below:

"@If(SMTPMaxInbTasks<0 | SMTPMaxInbTasks>90;@Failure("You can only have between 0 and 40 processes.");SMTPMaxInbTasks="";@Failure("You must supply the number of inbound processes.");@Success)"

**Note:** Only preliminary tests were performed with the SMTPMTA_MAX_TASKS set beyond 16 and so no expressed certification is implied. The additional tasks will require more system resources (such as memory). If problems occur that can be system resource related, either add more system resources or revert back to the previous task limits.

**Server**

**Ignore Resent- headers**

Previous versions of the SMTP/MIME MTA took Resent- RFC822 headers in precedence to non- Resent- headers. Therefore, the 1.1 release had an .INI variable that forced the MTA to ignore the Resent- Headers and to use the non Resent- ones (the .INI variable is `SMTPMTA_IBIGNORE_RESENT`). However, in 4.6, the MTA reverses this functionality so the MTA ignores the Resent- Headers and use the non- Resent- ones by default. With the .INI variable set, the MTA takes Resent- RFC822 headers in precedence to non- Resent- headers.

**Server**

**Inbound control of BCC: field**

The SMTP/MIME MTA uses a common method to resolve differences between the address in the envelope versus the address in the header. It places the envelope address in the BCC: field. For customers who do not like this solution, the .INI variable to disable this feature is `SMTPMTA_NO_IMPLICIT_BCC=1`.

The BCCs cannot be created when there is a mismatch between addresses in the envelope and header.

**Server**

**International characters in non-responsible names**

By Default, if the SMTP/MIME MTA encounters non-responsible names (the sender or other addresses that cannot be delivered by this MTA) with non-ASCII characters, it attempts to retrieve an ASCII shortname and use this shortname to compose the Internet address. If that fails, the message is non-delivered.

With the Notes INI variable `SMTP_I18N_PHRASE` set, it instead ties to create an RFC 822 compliant name by 1522 encoding the name into a phrase (whether the MTA is in Name & Address or Address only mode), and looking up the user's shortname to create the local part. If this does not result in a compliant name (no shortname, non-ASCII shortname, or couldn't locate name in address book), the SMTP MTA then encodes the non-ASCII characters in the Notes user names in the local-part of outbound addresses and 1522 encodes a version of the name as the phrase. This encoding is described in the release note Encoding and Decoding of Non-ASCII Addresses in the Things you need to know chapter.
Server

**Maximum hops**
By default the MTA fails a message if it is perceived to have traveled (or Hops) across 30 systems. This is to prevent infinite mail routing loops. The parameter that allows the administrator to change this number is SMTPMTA_MAXHOPS.

Server

**MIME attachments**
By default, the MTA make an attachment out of any MIME Text/Plain body part that has a filename associated with it. The parameter SMTPMTA_INLINE_TEXT_ATTACHMENTS forces the MTA to work in the manner before SMTP R1.1, which was to place the text in the body of the resulting Notes Message.

Server

**Overriding MTA encoding and encapsulation settings**
The parameter SMTP_SUPPRESS_USER_SWITCHES prevents the user from overriding the encoding and encapsulation settings for the SMTP/MIME MTA as set by the system administrator. The default lets the user select that messages be encapsulated or the type of encoding used.

Server

**SMTP MTA JPEG export .ini variable**
The following NOTES.INI variable used by SMTP MTA has been added subsequent to the initial R4.6 product release. Note that this variable is not certified by Lotus and should be used with caution:

SMTP_EXPORT_JPEG=1
This variable changes default format of exporting from Notes as .JPEG instead of .PCX format.

Server

**Use local domains**
By default the MTA ignores the local domain, and does not include it in the address. The SMTP_KEEP1MEANS1 parameter forces the MTA to treat the local domain the same as any other global domain. This can be useful for Notes Domains on the Right configuration. This is only of use if "Domain Stripping" is set to ALL or ONE. With this ini variable and Domain stripping set to either ALL or 1, a local Notes user's address might be created as Notes_User@LocalDomain.domain.suffix instead of Notes_User@domain.suffix. For example: SMTP_KEEP1MEANS1=1

Server

**Attachment issues**
- The file identification routines do not always correctly identify file types. For that reason, the MTA cannot always apply the correct extension based on the SMTP Tables database (SMTPTBLS.NSF) if an inbound attachment does not have the Name parameter to indicate the file name with an extension.
- The file identification routines do not identify text attachments. Inbound messages containing a text attachment but no Name parameter indicating the file name get an extension of "unk."
Server

**Attachments not sent**

If you receive the log message "Access to data denied" you should:

Check that the work path in the Server document is set to a directory that exists (for example, d:\notes\data\smtp\temp). Permission to this directory must be Read, Write, Execute, Delete (RWXD), even if the permissions for the drive are set to READ ONLY. The drive must be set to at least READ ONLY.

Client, Server

**Client side of SMTP Errors due to unrecognized recipient name in memo**

If you compose a message in the Notes POP3 client addressed to a recipient without a domain name (or a name that is not found in the Domino Public Address Book), the following message appears in the status bar when you attempt to send the mail: **Replicator error, SMTP Protocol Returned -ERR, sending mail.**

The mail message is held in the SMTP.BOX and is not deliverable. This error occurs when a Location document is configured to send mail directly to the Internet and the Outgoing mail setting field specifies a Notes server that is running the SMTP/MTA (for example, "acme.com").

If multiple messages are held in the SMTP.BOX and at least a single pending message results in this error, none of the held messages are transferred to the server when outgoing mail is sent. If this error persists, you need to remove the offending messages from the SMTP.BOX before you can continue to send outgoing mail.

Server

**Domain record configuration if user name contains non-ASCII characters**

An error appears if Notes users have non-ASCII (accented) characters in their names and specifies "Name and Address." The result is that the sender receives an error message stating the message cannot be delivered.

The workaround is to have the user's short name as ASCII; the SMTP MTA Domain record section "SMTP Address Conversion" configured for "Address Format": Address Only and "Local Part Formed From": Short Name.

Server

**Enabling QNC.EXE in Windows NT for diagnostics**

Notes includes a tool called QNC that can collect information about Notes tasks that terminate abnormally. QNC assists in diagnosing and fixing errors. If SMTP MTA tasks terminate abnormally, you can have QNC collect information to be analyzed by Lotus technical support.

You must enable QNC before running it. Enable QNC by entering the following command at the MS-DOS prompt:

```
qnc -i
```

You must re-enable QNC each time the system is restarted. To ensure QNC is automatically enabled every time the system is started, add qnc -i to the command line of QNC in startup.
First server setup creates postmaster alias for administrator even if there is an existing postmaster

This problem occurs if you have an existing Notes or Domino server and want to execute a first server setup after installing Domino 4.6.1 using the existing Name & Address book. Domino setup creates a SMTP Postmaster alias without first checking if one exists. Non-delivery reports destined for Postmaster go to whichever Postmaster is found first in the Name & Address Book. To correct this situation, delete the Postmaster alias that was created by setup under the administrator's name.

Group names must be unique from user names

Problem:

- You have a Group name that also matches the last name of a Notes user.
- At least one member of this group is an SMTP address.
- The MTA is configured for shortname and not Internet address lookup.

When a Notes client sends to the Group, Notes displays the choice between the group and the user. If you pick the Group, a message arrives in SMTP.BOX with a Sendto: field of GroupName. However, when the SMTP/MIME MTA converts this address the SMTP To: header becomes "Groupname"<usersshortname@suffix> because the MTA is picking up the shortname of the user that matches the group name.

To: "Smith" <BSmith@lobster.acme.com>

This results in replies going to the wrong place.

Solution:

- Group names must be unique and not match Notes user names.

If charset ISO-8859-1 used to represent native code

If your mail system usually receives mail with charset ISO-8859-1 representing your native charset (for example, Big5 or GB2312), follow the steps below to modify the SMTP MTA table so the SMTP/MIME MTA can convert the mail correctly.

1. Find the entry "ISO-8859-1" in $MTACharSet of MTA Table (or SMTP Table) and remove the "ISO-8859-1" from the Character Set ID field.

   Example:
   
   Character Set ID:   ISO_8859-1; ISO8859-1; ISO8859-1 (IBMCP819); iso-ir-100; latin1; I1; IBM819; CP819; 88591; csISOLatin1.

2. Add "ISO-8859-1" to your native charset entry (for example, Big5 or GB2312).

   Example:
   
   Character Set ID:   Big5; X-Big5; Chinese Standard Interchange Code - Set 1 & 2(Big 5); csBig5; IBMCP950; 950; CN-Big5; ISO-8859-1.
Inbound date handling changes
To resolve issues with the handling of the Date field in inbound messages in regards to Timezones and Daylight savings time the MTA converts the SMTP Date: to GMT and store that in the Notes PostedDate field. The viewing client then displays the date adjusted to its local configuration for timezone and daylight savings. For example:

Date: 06 Jul 1997 10:00:00 -0400
(10am EDT or AST)
becomes:
06 Jul 1997 14:00:00 GMT
in the Notes message.

A Notes client configured for EDT still displays this as 06 Jul 1997 10:00:00

Internet Address issues
To use the Internet address lookup or "short name" option, you must specify the "Domain" field in Person documents. The domain must also be in the "Notes domains and aliases" field in the Global Domain document.

If you use a period as the domain separator character and include Notes domains to the left of the @ sign, Lotus recommends that you not use periods in names. If there is a space after the period (for example, First M. Last), then the MTA can distinguish between periods in names and periods used as the domain separator. Any other use of periods in the name causes problems.

Mail issues
Current problems exist in this release when sending encapsulated mail in conjunction with converted mail. To circumvent known issues, avoid the following configuration settings in the Name and Address Book Server document section, "Internet Message Transfer Agent (SMTP MTA)" under "Conversion Options":

Message Content = "Users with and without Lotus Notes"

In the "Foreign SMTP Domain" document, within the section "Should be Routed to", you can choose between two fields: "Domain name" or "Internet host". Currently, either field can be used. In the future, the "Internet host" option will be removed. To avoid confusion and potential problems, if your system is currently configured to use "Internet host," reconfigure it to use "Domain name." Also, change the "Connection" document to use "Destination domain." Refer to the Maintaining the Domino System for information on configuring the Foreign SMTP Domain document and the SMTP Connection document.

MTAFORMS.NSF is refreshed automatically when the Notes Mail design template changes. However, when upgrading from a previous version of SMTP MTA; after installing the Domino server including SMTP/MIME MTA, replace the design of the existing mtaforms.nsf database using mail46.ntf as the template.

The short name configuration option for encapsulated messages does not work.

The "from" address of an encapsulated message has the Notes address instead of the internet address. The receiving user must modify the address to reply.

In the "Server Connection" document for the field "Destination server," choose a different server name than that used for the field "Source server." If you do not, a routing loop might occur.
Multiple character sets

The MTA does not support multiple character sets. It can currently support US ASCII and the character set configured by the language parameter. Messages containing characters from more than one character set are not converted correctly (inbound or outbound). For example, a message containing a Greek character, followed by a Cyrillic character is converted as if the message contained only Greek characters.

Non-qualified host names

Inbound mail from the Internet must include a fully qualified Internet host name or the SMTP/MIME MTA cannot process the message. The MTA cannot relay any message where Destination addresses are not configured to be routed outbound. SPR# MCHT3HRNMB

Notes domains in Global Domain members field must be semicolon separated

Notes domains entered in the Members field of the Global Domain document in the Public Address Book must be separated by semicolons. Other separators such as a space, new line or comma are not acceptable. Unacceptable separators cause the domains entered to be unrecognized by SMTP MTA.

OS-Level SendMail agent must be disabled to run the Domino SMTP/MTA add-in

If you run the Domino server on either the UNIX/AIX or OS/2 platform, and the SendMail daemon (AIX) or SENDMAIL program (OS/2) is loaded prior starting the Domino server, you cannot run the SMTP/MIME MTA server add-in task. Both SendMail and the SMTP/MIME MTA use port 25 to listen for incoming connections, and you can only run one of these programs at a time to provide incoming mail service. If you want to run the SMTP/MIME MTA on Domino, you must first disable the SendMail program.

Overriding default method of encoding for Internet mail attachments

In Lotus Notes, you can address a message to the Internet by entering the Internet address in the To: field, for example user@lobster.acme.com. When the message gets sent to the Internet, by default any file attachments are MIME encoded. You can override the default of MIME and have the file attachments sent UUENCODED, as follows:

1. Prepare a new memo.
2. Select Actions -> Special Options from the menu.
3. Click the down arrow located to the right of the Encoding method for Internet Mail attachments on the Special Options menu.
4. Select UUENCODE from the dropdown listbox.
5. Click OK.
6. Finish creating the memo and click the Send button.

Any file attachments for that particular message is UUENCODED when sent out to the Internet. SPR# DMNL3FATBY
Server

**Processing similar double-byte Notes user full names**
Under certain circumstances when processing mail, the Notes name lookup of users whose full names contain double-byte characters might fail if there is a person with a similar name in the address book and the correct collation tables for the language are not installed on the server. Under these circumstances mail can be misdelivered. Lotus recommends you define an ASCII character shortname and use that when sending mail. SPR # MMIO3KF8NH

Server

**Sendmail nonconformance**
Interoperability problems have been introduced by versions of v8.n.n Sendmail, which can be configured to generate nonconformant SMTP protocol and message syntax behavior. The changes made to the SMTP/MIME MTA to operate with these versions of Sendmail and to ensure that the mail message can be viewed by the recipient are described below.

A NOTES.INI variable called `SMTPMTA STRICT 821LINE_SYNTAX` with default value equal to 0 (OFF) is used as follows:

```
SMTPMTA STRICT 821LINE_SYNTAX = 0 (OFF)
```

the inbound transport code accepts and handle SMTP commands ending with just a `<LF>` character or the standard `<CR><LF>` sequence. In addition, the transport translates the canonical format of each header/body line to the standard `<CR><LF>` representation when it detects the nonconformant `<LF>` termination. These changes ensure that the mail item is presented cleanly to the recipient and that the Lotus MTA does not propagate the nonconformant syntax in relay situations.

```
SMTPMTA STRICT 821LINE_SYNTAX = 1 (ON)
```

When strict compliance is enabled, the transport rejects incoming connections that generate nonconformant SMTP command sequences ending with only a `<LF>` character. The transport verifies the terminating character sequence used by the sending SMTP on the initial HELO command. If it is not the standard `<CR><LF>` sequence, the transport rejects the incoming session by generating the following multiline reply sequence:

```
500-Syntax error, command unrecognized
500-The receiving MTA is set for strict SMTP compliance and has detected that the sending
500-SMTP is generating nonstandard SMTP command syntax by terminating commands
500 with only a linefeed character. Please refer to RFC821 section 4.1.1.
```

Server

**SMTP MTA processing of non-ASCII file attachment names**
Since use of non-ASCII characters in SMTP headers including file attachment names is not specified by Request for Comment 822, file attachment names containing non-ASCII characters might not be displayed properly when viewed by mail clients.
SMTP/MIME MTA statistics
The following statistics are displayed for the SMTP/MIME MTA:

- MTA.Smtp.Dead = 1
- MTA.Smtp.TotalKBTransferred = 189
- MTA.Smtp.TotalRouted = 0
  **Note:** This statistic always displays value zero because it is not supported by the SMTP MTA.
- MTA.Smtp.TransferFailures = 19
- MTA.Smtp.Transferred = 162
- MTA.Smtp.Waiting = 2
- MTA.Smtp.WaitingRecipients = 0
  **Note:** This statistic always displays value zero because it is not supported by the SMTP MTA.

SMTP/MIME MTA uses SMTPTBLS.NSF
The SMTP/MIME MTA no longer uses the MTA Tables database (MTATBLS.NSF). It now uses the SMTP Tables database (SMTPTBLS.NSF).

Supported combinations of message content versus attachment encoding

<table>
<thead>
<tr>
<th>Message Content Options</th>
<th>Base 64</th>
<th>Quoted Printable</th>
<th>UUEncode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Users without Lotus Notes [MIME]</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Simple Text only mail users</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Only Lotus Notes Users</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Users with and without Lotus Notes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Note:** Not a recommended option.

Upgrading MTAFORMS.NSF
When upgrading from a previous version of SMTP MTA; after installing the Domino server including SMTP/MIME MTA, replace the design of the existing mtaforms.nsf database using mail46.ntf as the template.
**NNTP Server Issues**

**Server**

**Creating an NNTP document (UNIX)**

"Anonymous@NoDomainName" appears in the originator field when you create a new document in an NNTP newsgroup and use an HTTP web browser client to access a Domino UNIX server.

**Note:** If the server or database requires Name and password authentication, then the user's name appears instead of "Anonymous."

**Workaround:**

You can modify the originator field and add the correct e-mail address, or you can edit the Notes.ini file on the Domino NNTP server and add this entry:

```
InternetDomain=yourdomainname.com
```

For example:

```
InternetDomain=lotus.com
```

**Client, Server**

**Cross posting articles from a Notes client or Web browser**

If you want to post an article from a Notes 4.6.2 client or a Web browser to multiple newsgroups on your NNTP server, ensure that the Notes client is connected to the NNTP server. The cross-posted article will be stored in a database called nntppost.nsf until it is posted in the multiple newsgroups.

**Server**

**Manually creating newsgroups not visible to NNTP clients or remote NNTP servers**

If you create a newsgroup manually by choosing **File - Database - New** from the Notes admin-only client or a remote Notes client, you must save the Database Profile document, which opens immediately when you create the newsgroup. Until you save this document, the newsgroup is not visible to NNTP newsreader clients or remote NNTP servers. The Database Profile document lets you designate the newsgroup as private or private/moderated, and lets you specify access rights for private newsgroups.

If you create a newsgroup manually by choosing **File - Database - New** from a remote Notes client, the newsgroup might not be visible to NNTP clients and remote NNTP servers for up to two hours. To avoid this problem, the NNTP Administrator (or anyone with access to the server console) can create new newsgroups using the server console command:

```
tell nntp newgroup group_name
```

To resolve this problem for a newsgroup that is already created, the NNTP administrator can restart the NNTP server using the console command:

```
tell nntp quit
load nntp
```
Server

**NNTP Pull feed fails to transfer articles**

Some NNTP servers do not allow Pull feeds. If your server fails to Pull articles from a remote NNTP server, you can try setting the NOTES.INI variable NNTP_PullAsReader=1 and resetting the Pull feed (see the section entitled *Resetting an NNTP newsfeed* in the Documentation Updates section of these Release Notes).

If this fails, you need to contact the administrator of the remote NNTP server to set up a Push feed to your server or to update the configuration of the remote server to allow your server to Pull articles.

Server

**Running agents in the NNTP discussion template**

The NNTPDI46.NTF template has agents that must run if you are using a Web browser to access newsgroups and read articles. These agents are signed with the Lotus Notes Template Development/Lotus Notes ID. By default, this signature is included in the Server document under the Agent Manager section in the "Run Restricted LotusScript/Java Agents" field.

If an agent is modified, the signer changes to whoever saved the agent. The signer must be added to the "Run restricted LotusScript/Java agents" for the agents to run properly.

You should also ensure that the "Run Agent as Web User" option in the NNTP Discussion database is selected (this is the default). Open the NNTP Discussion database, go to the Agents section and highlight an agent (for example, WebAddTopics). Select Agent Properties from the Agent menu. Click the Design tab to ensure this option is selected.

If you do not select the "Run Agent as Web User" option then the agent runs with the signers access level. Deselecting the "Run Agent as Web User" option in requires that the signer of the agents have appropriate access to the database.

You also need to have appropriate access in the ACL of the NNTP Discussion database to perform the functions that the agent is requesting. For example, if the agent is creating documents then the authenticated web user needs to have Author access to create documents in the database.
Network Issues

Client, Server

NetWare IPX/SPX protocol stack for Windows 95/Windows NT 3.51/4.0 with Token-Ring & FDDI

Windows 95 or Windows NT and Microsoft's NWLink does not support large SPX Packets. This can cause problems on Token Ring and FDDI Networks with IPX/SPX, generating the Notes error:

**Client errors:**
- Server Not Responding.
- Network Operation Did Not Complete in a Reasonable Amount of Time.
- Session to Server Lost.
- Remote System is No Longer Responding.

**Server errors:**
- Mail Router spawning multiple sessions to other server
- Replication failures and spawning multiple sessions to other server

At this time Novell has released a newer Client32 for Windows95 that inherently has the fix that allows the Link Support Layer Buffer setting (LSL Buffer) to be set and work on controlling the transport buffer size under Token-Ring. This is a property of the NetWare Client32 driver available from the Windows 95 and Windows NT Network Control Panel Icon and is the preferred choice for performance reasons.

**For Windows 95** - 95ENU_N3.EXE

**For Windows NT** - NTENU41N.EXE

*Note:* The new IntraNetWare client for NT no longer uses Novell's protocol stack which offers the LSL buffer setting option (instead uses the Microsoft NWLink stack). Please use the older Client32 at this time. We are working with both Novell and Microsoft on a long term correction to this issue.

These files are available on Novell's web site http://www.novell.com

When systems are on the same ring 4182 is a workable value for LSL buffer setting with Novell's default setting of 4202 MAC frame size.

When systems are communicating across a Bridge or Router the best MAC frame size is 4096 within these environments. To figure out the correct LSL buffer value select one of the following:

- Transparent Bridge or a straight Routed networks with Token-Ring & FDDI, subtract 22 bytes for Token-Ring MAC & LLC headers one gets 4074 this is the optimum value for LSL buffer in this environment (i.e.: 4096-22=4074).
- With Token-Ring Source Route Bridge networks, in the addition to the MAC & LLC headers the RI field (RIF) has to be included and can be as large as 30 bytes which gives you a value of 4044 as the optimum value for LSL buffer in this environment (i.e.: 4096-22-30=4044).

In addition it is recommended the NetWare servers STARTUP.NCF have the following added ‘Set Maximum Physical Recieve Packet Size = 4096’ This will make sure all the end nodes are using the 4096 frame limit that are accessing this NetWare server.

Your network may require different values if there are network segments that are setup with a lower frame size. Review with your network administrator for any possible conflicts and use the largest value your network can support.
Client, Server

**Unexpected NetWare error when making SPX connection in Windows 95**

A Windows 95 system that is configured to use Microsoft NWLink for SPX, and has the Novell SDK DLLs installed can cause Notes to return the following error message:

> **Unexpected Netware error. See the Notes log file on this system for error code.**

To resolve this problem, rename or delete the three Novell SDK DLL files from your system. The files are: `calwin32.dll`, `locwin32.dll`, and `netwin32.dll`. SPR# DHOE3LCR49.

**POP3 Issues**

Server

**Messages are downloaded repeatedly using Netscape POP3 client**

To login to the Domino POP3 server from a Netscape POP3 client, you must supply a user name that forms a single string of characters and does not include special characters. If more than a single string of characters is specified for the Mail server user name, all messages are repeatedly downloaded by the POP3 server to the client, without regard to whether they have already been read.

POP3 users are encouraged to use the contents of the Shortname field in the Person document to prevent this problem from occurring.

Server

**Unable to retrieve messages with POP3 client if object store not found**

If the object store is not found for even a single note in a mail file, the POP3 client cannot access any messages in the mail file. The POP3 client receives a login error following this server error. The following message appears on the server console:

> POP3 Server: Unable to open mail file for joe doe/acme:
The object store that is used by this note was not found or is not a Notes database

To resolve this problem, load the OBJECT COLLECT server task at the server console and supply the name of the user’s mail file. This purges corrupted documents from the object store, and the POP3 user can access the contents of the mail file.
Calendaring and Scheduling Issues

Server

**Free Time database does not reflect an edited resource reservation time**
If you try to edit the Room of an existing resource reservation directly in the Resource Reservation database and the Free Time database (busytime.nsf) does not update simultaneously (which means you cannot reserve the original resource at the original time), perform the following steps:

1. Update the Notes.ini file to include `SCHEDULE_CHECK_ENTRIES_WHEN_VALIDATING=1`. Schedule Manager needs to be cycled for the change to take effect.

2. Issue the console command "tell sched check ResourceName" where ResourceName is the name of the resource you want to make available.

Note: The last step is optional as it automatically occurs daily at 2 AM.

To prevent this issue from happening, make all resource reservations edits from your mail file, not from the Resource Reservations database.

Client, Designer, Server

**Known Web mail template/C&S issues**
The following sections describe known limitations and ways to work around problems users might encounter using the Web Mail template. You should review these item and determine final relevance:

- If you edit a Calendar entry from another type, (for example, an Anniversary to an Invitation), and then add users to both the Send invitation to: and Optional invitees: fields, only the Optional invitees are displayed in the chair's Calendar entry. If the Invitation is not a Broadcast (the "I don't want responses from the Invitees" is not selected), the Invitee Responses grid is also blank and only updated as each invitee responds to the invitation.

- Calendar Managers with a "No access" level in the "Access Control List" but with "Read/Write" public documents access are not allowed to create new or process existing calendar entries in another person's mail file. They currently can only view the documents from the Meetings and Calendar views.

- If you submit any document, press the browser Back button, edit the document again, and submit it again. A second copy of that document is created. If you need to edit an entry that has just been created, you must click on any of the views from which it can be accessed, click on the entry to reopen it and then click on the Edit action.

- The Enable conflict checking for: option in the Calendar Profile is not currently supported. Web mail users are not warned when creating calendar entries in previously scheduled time slots.

- If a Web user creates a new calendar entry, fills in some of the fields, does not yet Submit the document, and then decides to change the entry type (e.g., from an Anniversary to an Appointment), it may seem that all information previously typed has been lost. If you're using Netscape Navigator, you can access that information by clicking the Back button to return to the previous screen containing the entry with its original data. Then click the Submit button to save the document. Reopen the document by selecting it from a view and Edit it. The entry type can now be changed without losing the previously typed information.
If you create a task that is assigned to others, click the **Assign to Others** button before adding any
information to the form. Otherwise, any information already entered in the task appears as though it
is lost when the button is clicked. If this happens, click the **Back** button on your Web browser to
access the previous screen which contains the entry with its original data. Save the document by
clicking the **Submit** button, and then **Edit** the document as displayed in the To Do view.

After a meeting is canceled, the chair may still send a confirmation from the "Invitee Responses" grid
in the Calendar entry. However, this confirmation does not recreate the entry.

If a Web client sends a meeting invitation to a Notes client and that invitation gets delegated more
than once, when the Chair of the meeting sends out a Meeting confirmation, the confirmation notice
is received not only by the invitees who accepted but also by the next to last delegating party in the
list. The delegating party should ignore this notification.

If a Notes client sends a repeating meeting invitation to Web client, only the first instance of the
meeting is added to the Web client's Calendar. The chair should specify the repeating information in
the **Detailed description** field of the Invitation, and the Web client must manually add these entries
to his/her Calendar.

If a Notes client proposes an **Alternate Time/Location** for a meeting invitation sent from a Web
client, the Web client is unable to accept/decline the proposal, thus leaving the Notes client unable to
respond to the invitation. Therefore, Notes clients who are invited to meetings by Web clients should
not use the **Propose Alternate Time/Location** option when responding to invitations.

When an invitation is delegated to a web user and the web user accepts or declines the delegated
Invitation, it is reflected in the Rooms/Resources section of the chairperson's "Invitee Responses"
grid. SPR # APAI3J5RLZ

Web users should not modify the calendar entry type after having accepted an invitation. If a web
user accepts a meeting invitation and then modifies the calendar entry type to one of the other
alternatives (Appointment, Reminder, etc.) the icon will be changed to that of the type chosen. If the
invitation is edited to an Event or Anniversary, the icon will change and the time will default to 12:00
am. SPR # APAI3KHREL

Calendar Managers (those users with Read/Write public documents access to another user's mail
file) accessing the owner's mail file from a Browser may only exit from any of the three available
views by using the "Back" button (or Browser equivalent). SPR # APAI3KMP3X

Calendar Managers accessing the owner's mail file from a Browser will not be allowed to use the
"Search" action in the owner's mail file. Authorization errors will be reported from the server. SPR #
APAI3KMPME

Calendar Managers with less than "Author" access, will not be allowed to process incoming meeting
invitations when accessing the owner's mail file from a Browser. To set author access or higher, mail
file owners should edit the ACL from the Notes client and check "Write public documents". Mail file
owners should be aware that this is a higher level of (more) access than Calendar Managers from
Notes. SPR # APAI3KNHZG

When working from a Browser, users cannot process invitations on behalf of others (i.e., as a
Calendar Manager) for meetings of which they are also the chair. SPR # APAI3KPPP3

If the Chair sends a meeting invitation from a Notes client and includes a Room/Resource
reservation, from a Browser, the Room/Resource responses will not appear in the Chair's "Invitee
Responses" grid. SPR # APAI3JTHDK

When working from a browser, using Find Free Time will cause paragraph markers to be removed in
the Detailed Description field. SPR # APAI3KEVVX
When working from a browser, a user will be unable to "decline" a meeting invitation after having accepted it.  SPR # APAI3KHQLV

Invitees using a web browser should not respond to meeting confirmations even though the options are available to them. These options are not available to Notes client users.  SPR # APAI3KLMHJ

The Microsoft IE web browser user does not have access to a Browse button for file attachments in Memos, Meetings, Tasks or Messages. The Browse button is available in Netscape.  SPR # APAI3JRLSF

If any of the invitees have declined or delegated a meeting invitation, the "status update" information in the chair's confirmation may be incorrect if sent from a browser.  SPR # APAI3KLP8B

Users from the web who set the "importance" field on a meeting invitation will cause the invitation to display an exclamation point, instead of the meeting icons (e.g., handshake, yellow envelope, thumbs up/down).  SPR # APAI3KAJVP

If a date is entered with the wrong date format while using the browser to perform a freetime search, the freetime finder will display either an empty gray grid or an error message: "Invalid Arguments were supplied to the @function." To avoid this problem, always enter a date using the proper date format, preferably your server's date format (e.g., 10/11/97 instead of 10.11.97).  SPR # APAI3KJKP7

If a user working from a Browser receives a meeting cancellation for a meeting that has already been accepted, the Calendar entry will not be eliminated from the date/time slot of the Calendar as in the case of the Notes client. The user should manually eliminate the entry from his/her Calendar.  SPR # APAI3FRQWC

To successfully use all mail and C&S features from the web, users must set their browser to always reload from the server all documents listed in the browser cache. For Netscape users: under "Options-Network Preferences-Cache", set "Verify Documents" to "Every Time." For Internet Explorer users: under "View-Options-Advanced-Settings", set "Check for newer versions of stored pages" to "Every visit to the page." If you are using Notes as your browser, the cache setting in your location document overrides those in Internet Explorer.

When users of the web mail or combo mail templates create entries with dates and times (calendar entries) from the web, they are using the server's date format. You should ensure that your workstation and mail server are using the same date/time formats. For example, if your workstation is using mm/dd/yy to represent a date and your server is using dd/mm/yy, you could inadvertently create an appointment for 4/8/97 intending August 4, 1997, but it will actually be created as April 8, 1997. An appointment scheduled for Dec. 30th, 1899 is probably due to an invalid date format or different formats between the workstation and mail server.  SPR # APAI3KLM57
Application Design Issues

Designer

**Formulas**
The following OLE related @Commands are not supported on the UNIX platform:

- EditInsertObject
- ObjectDisplayAs
- ObjectOpen

Client, Designer

**Navigators**
- Some Navigator text objects in the Notes for UNIX templates do not display properly.
- Navigator text objects created on one Notes for UNIX platform might not display properly on another.
  SPR # STHR3AGLX5

Client, Designer

**Scroll bars**
Scrollbars do not appear in text fields created in layout regions unless the Multiline Edit Control Option is also selected. SPR # MGRT34SKDF

Client

**Templates**

**Lotus SmartSuite 96 Library and Microsoft Office Library templates**
The Lotus SmartSuite 96 Library (R46) and the Microsoft Office Library (R46) templates contain forms that automatically launch applications. UNIX users attempting to access these forms receive an error message.
**Java agents**

**Ensuring that your threads complete in your Java agent**

A Java agent is considered to be over when the NotesMain() method completes. If at that point the agent has left any threads still running, they are considered to be in error and are terminated. Thus, a Java agent must ensure that if it starts other threads that they are finished before the agent returns from the NotesMain() method.

This agent uses the join method to ensure that NotesMain does not end until the thread is complete.

```java
import lotus.notes.*;
public class NotesAgent extends AgentBase
{
    public void NotesMain()
    {
        Session s = getSession();
        getVersion t1 = new getVersion();
        t1.setSession(s);
        t1.start();
        try {
            t1.join();
        } catch( Exception e)
        {
            e.printStackTrace();
        }
    }
}
class getVersion extends NotesThread
{
    Session s;
    public void setSession(Session s1)
    {
        this.s = s1;
    }
    public void runNotes()
    {
        try {
            System.out.println("Notes version is " + s.getNotesVersion());
        }catch((Exception e)
        {
            System.out.println(e.getMessage());
            e.printStackTrace();
        }
    }
} // end of class
```

**On importing class files**

When you create a Java agent, you import the class files that make up your Java agent into a Notes database. When your agent runs, it does not look at your filesystem for the class files. Instead, it gets them from the database. It goes to the file system again if you want to reimport your files.

**Large numbers of class files**

If you have a large number of .class files to import into a Java agent, create a jar file and import that instead.
Rearranging your files
Note that when you are reimporting Java files, the up and down arrow keys in the reimport Java files dialog box do not change the order of the files. If you want to rearrange the order of your class files on reimport, use the reorganize class files dialog box.

Your Java base class
When you create a Java agent, the base class (the class that contains your NotesMain method) defaults to the first class you enter. If you later reimport files to refresh the agent, the base name is not updated automatically.

Output messages
When you run your Java agents locally, look at the Java console for output messages. To get the Java Console, select File - Tools - Show Java Debug Console. When you run your Java agents on the server, the output goes to the Notes Log database, log.nsf.

Client
Notes directory must be on path
The directory for the Notes executable file (NOTES.EXE) must be in the operating system's path for Java applications to run successfully.

Client, Designer
Installing Internet Explorer 4.0 after Notes can cause Preview in Web to stop working
If you install Internet Explorer 4.0 after you have Notes already installed, you may get an error message using any web browser while using Preview in Web Browser. The error messages that you may receive are:

NETSCAPE - There was no response. The server could be down or is not responding.
Internet Explorer - IE cannot open the Internet site. A connection with the server could not be established.
Notes - Unable to start the web process. consult the log for additional information.

If you receive any of these messages, you need to reinstall Notes.

Designer
Embedded objects
Ensure a formula is entered if a view/navigator based on a formula is being embedded to a form. If you do not enter a formula, Notes, without prompting you, saves the form with no formula.

Client, Designer, Server
Error message when using embedded navigators
If you use an embedded navigator that is not checked “Web Browser Compatible” and you view it through a Web browser, you receive the error message, HTTP Web Server: Graphic Background Not Found Exception. In the form that you are designing, you need to hide this navigator from Web browsers.
Designer

**Hiding the first or last paragraph in a field causes the bracket field markers to be hidden**
If you hide the first or last paragraph in a field, the "[" or "]" field markers are also hidden. This problem also exists with regular Hide When, and is deep down in the editor.

Client, Designer

**NotesRichTextItem class and the EmbedObject method**
If you attempt to access objects created by the EmbedObject Method of the NotesRichTextItem Class, your Notes session terminates.

Designer

**Actions-Forward from modal window**
If there is an object in your form and the Launch Properties are set to 'Present document as modal dialog', the Actions-Forward command is inoperable from the modal dialog for any documents created using this form.

Designer

**Copying database icons into a navigator can produce an error**
When you copy a database icon into a navigator, you might get the error message *can't load bitmap into memory*. This error occurs if your color palette setting is for greater than 256 colors. The two options for workarounds are:

- Switch your color palette to 256.
- Paste the icon into a form or document, then copy the icon back to the clipboard from the form or document, and then paste the icon into the navigator.

Designer

**Embedded view only shows 30 documents**
The number of documents that are shown by default in an embedded view is 30. To let users see the next page of documents, you need to create hot spot buttons. You can use @command([ViewPageUp]) to see the next page and @command([ViewPageDown]) to see the previous page.

Client, Designer

**Navigator contains one or more unrecognized objects**
You might receive the error message, *Navigator contains one or more unrecognized objects*, if you are running a version of Notes earlier than 4.6.2 and the navigator has a hotspot circle on it. Hotspot circles are supported only by Notes Release 4.6.2 and later.
Client, Designer

**Problem in saving scripts after upgrade to Internet Explorer 4.0**

If you use the Microsoft Internet Explorer (IE) 3.0 Web browser within Notes, you might encounter a problem re-saving scripts when you upgrade to IE 4.0. Your Notes application still uses the previous version of the IE Web browser, however, Microsoft has changed the names of objects by adding the suffix ".v1." If you do not make any changes to any scripts, there is no need to do anything. Your application still works without modification. If you make changes to the source of the scripts, you need to update to use the modified names before all the scripts can compile again.

You can use the browser in the programming pane to find the correct spelling of the new object names.

Client, Designer, Server

**Setting needed for C API applications running as Windows NT services**

A Notes C API application can be run as a Windows NT Service. Due to a problem in Domino and Notes 4.6.x releases, the system environment variable NOTESNTSERVICE=1 must be set before running a Notes C API application as a Windows NT Service. If this environment variable is not set, calls to the Notes C API cause a failure if they require any user authentication [for example, NSFDbOpen()] made after the user starting the service logs off. For more information on Windows NT Services, refer to Microsoft's Windows documentation.

Designer

**Using "Launch designated doclink" in "On Web Open"**

If you use the Launch option "Launch designated doclink" for users coming in from the Web, ensure that these users have access to the document. Otherwise, Notes automatically brings the user to a list of all the views.

Java Issues

Client

**Append DocLink works only for document links**

The AppendDocLink method in the RichTextItem class works for document links only (not database or view links). This is a Java problem only. LotusScript works for all three kinds of links.

Note that this issue (Lotus SPR# JCDS3LLRH4) has been addressed in Domino and Notes Release 4.6.1 and later 4.6 releases. Refer to the Release 4.6.1 fix list, or the *History of Changes* chapter of these Release Notes, for the final disposition of the fix.

Designer

**GetUserInfo method in Registration class does not work**

The GetUserInfo method in the Registration class does not work. This restriction is for Java only. The GetUserInfo method does work in LotusScript. SPR # JCDS3LLHEY.
Client, Designer  
**Java agent files**
Files that make up your Java agent should be selected from the base directory . SPR # ICAO3L3J2W.

Designer  
**Java application cannot run a Java agent**
In Notes 4.6.2, you cannot write an application in Java to run an agent (with the run method of the agent class) written in Java. The limitation exists for this release because the Java VM that executes the java application might not be the one compatible with the Java VM that can execute Java in Notes with proper security enforced.

Designer, Server  
**Java servlets support**
This section explains the basics for configuring and running servlets in Domino. How to write servlets and how they work is not detailed. For more details on Java Servlets, go to JavaSoft's JavaServer site (http://jserv.javasoft.com). You can also download and install the JavaServer Developer Kit (JSDK).

**Quick-start instructions for servlets**
Follow these instructions to enable Java Servlets on your Domino server:

1. Add DominoEnableJavaServlets=1 to your server's NOTES.INI file.
2. Add a NOTES.INI setting (change accordingly depending on where your Domino server is located).
   
   JavaUserClasses=c:\lotus\domino\data\domino\servlets

3. Ensure that icsclass.jar and servlet.dll exist in your Domino server folder.

**Details on Java servlets**

Java servlets are supported on Windows NT/Intel servers only.

*Note:* Servlets are not supported on Windows NT/Alpha. Support is **disabled** by default. To enable Java servlets, add the following to your Domino server's NOTES.INI file:

```
DominoEnableJavaServlets=1
```

When Servlet support is enabled, the following lines are automatically added to DOMINO.CNF:

```
#Java Servlet Settings

EnableJavaServletSupport yes

ServerInit servlet:ServletInit c:\lotus\notes\data\servlet.cnf
Service /Servlet/* servlet:ServletService*
ServerTerm servlet:ServletTerm
```
When servlet support is enabled, the Java Virtual Machine is loaded at startup. It then attempts to find and load the ServletManager. This Java class and the rest of the servlet support is stored in a Java Archive (JAR) file called iicsclass.jar.

**Note:** This file is automatically added to the CLASSPATH.

The ServletManager loads any servlets that are specified in the Servlet Configuration file (SERVLET.CNF). For example:

```java
#Servlet configuration settings
Servlet HelloWorldServlet {
}

Servlet SnoopServlet {
}

Servlet DateServlet {
}

Service HelloWorldServlet /Servlet/HelloWorldServlet
Service SnoopServlet /Servlet/Snoop
Service DateServlet /Servlet/Now
```

This configuration specifies that three different servlets are loaded: HelloWorldServlet, SnoopServlet, and DateServlet. In addition, these servlets are each bound to a particular URL so that, for example, if the URL `http://myserver/Servlet/Now` is specified, the servlet Date Servlet is started.

**Q&A**

**How does the Web server locate code for a servlet?**

It uses a NOTES.INI variable called "JavaUserClasses," which can specify directories and JAR files for Servlets.

**What is the lifespan of a servlet?**

1. The ServletManager locates all Servlets when the Web server starts up.
2. The first time a request is made to run a servlet, its code is loaded and its init() method is called with any parameters specified in the configuration.
3. When a request to run the servlet is made, the Servlet's service() method is called. The service() method is passed two arguments, a ServletRequest that encapsulates the user’s request and a ServletResponse, which the Servlet completes to satisfy the request. **Note:** Due to the threaded nature of Web servers, servlet code must be thread-safe. Multiple threads can be executing the same Servlet's service() method at the same time. Fortunately, Java makes it easy to write thread-safe code.
4. When the Web Server shuts down, the ServletManager calls the destroy() method of all loaded servlets.

**Where can I find more servlets to try?**

You can find several in the JSDK. Otherwise, visit http://jserv.javasoft.com and http://www.javashareware.com. Servlets are relatively new so there are not as many examples available as there are with Java Applets. Once you know Java, Servlets are as easy to write as CGI programs. You must stop and restart the Web server each time that you want to load a new or modified Servlet.
**What is the syntax of the SERVLET.CNF file?**
The servlet.cnf file is a sequence of simple directives. There are two types of directives, Servlet directives and Mapping directives. A BNF of the syntax is as follows:

```
ServletDirective ::= ServletOrAdmin '{' ParamList '}'
ParamList ::= <empty> | Param | Param ParamList
Param ::= ParamName '=' ParamValue
ParamName ::= IDENTIFIER
ServletOrAdmin ::= 'AdminServlet' | 'Servlet'
MappingDirective ::= MapName ServletName Alias
ServletName ::= IDENTIFIER
MapName ::= 'ServerInit' | 'PreExit' | 'Authentication' | 'NameTrans' | 'Authorization' | 'ObjectType' | 'Service' | 'PICSDBLookup' | 'DataFilter' | 'Log' | 'Error' | 'PostExist' | 'ServerTerm'
Alias ::= PATH
```

There are two types of servlets: Regular and Admin servlets. The difference is that an Admin servlet has access to the ServletManager's configuration and can modify it. This gives the Admin servlet the ability to change the configuration on the fly.

There are several mapping directives. These correspond to the entry points that a Go Web Server Application Programming Interface (GWAPI) Server Extension can expose. The current implementation maps all directives to the same Servlet.service() method so all of them except for Service are unnecessary. The Alias for a Mapping directive is the URL path that is matched to run the servlet specified.

**Note:** A GWAPI Server Extension is similar to other server extensions APIs from Microsoft (ISAPI) and Netscape (NSAPI). Domino 4.6 supports this GWAPI. Developers can download the GWAPI documentation from [http://www.lotus.com/dominogowebserver](http://www.lotus.com/dominogowebserver).

**Designer**

**Log.openMailLog**
When Log.openMailLog is executed from a Java application when no database has been opened, an exception is created. As a workaround, have a database open or run Log.openMailLog in an agent.

**Client**

**Notes Directory and operating system path**
The directory for the Notes executable file (NOTES.EXE) must be in the operating system's path for Java applications to run successfully.
Possible hang in the Java Virtual Machine running multiple concurrent Java agents

In all current versions of Sun Microsystems JVM, which is used in the Domino server, there is a possible deadlock condition resulting from a problem in the way object finalization is handled during garbage collection. This deadlock can lead to a complete hang of the Domino HTTP Server process making calls in the JVM environment. This problem is documented by Sun as Bug 4091873, and it is described in detail at the Sun Java Developer Connection web site at:


This problem has been observed in the Domino HTTP Server under heavy load conditions when running many Java agents at the same time. There are no known workarounds available at this time.

Requirements for Java applications using BackEnd classes (UNIX only)

- See the document "Java support by platform" in the Things you need to know chapter of the Release Notes for information about which version of the JRE is supported with the current release of Domino.
- Include the Notes data directory in your PATH environment variable.
- Use the Java interpreter included in the Notes executables directory, for example:

  `<Notes executables directory>/java`

  where

  `<Notes executables directory>` is

  /opt/lotus/notes/latest/ibmpow for AIX,
  /opt/lotus/notes/latest/sunspa for Sun Sparc,
  /opt/lotus/notes/latest/sunx86 for Sun Intel

  and include the following directories in the classpath:

  `<Notes executables directory>/i18n.jar`
  `<Notes executables directory>/rt.jar`
  `<Notes executables directory>/icsclass.jar`
  `<Notes executables directory>/Notes.jar`
For convenience, you can use the following shell script file to automatically set the environment requirements specified above and execute the Java application.

```bash
#!/usr/bin/sh

# This shell script sets up the environment required to run Java application programs that use Lotus Notes 4.6 BackEnd classes.

# Usage notes:
# - You can rename this script.
# - You need to supply a .class file name on the command line.
# - You will be prompted for the .class file directory and the Notes data directory. Your selections will be saved (as hidden files in your home directory) and used as defaults on subsequent invocations.

myname=`(echo $0 | awk -F/ '{print $NF}')`

if [ $# -ne 1 ]; then
    echo "Usage: "$myname "<Java .class file name>"
    exit 1
fi

if [ -f $HOME/.$myname.ndir ]; then
    NOTESDATADIR=`(cat $HOME/.$myname.ndir)`
else
    # Initial Default Notes data directory.
    NOTESDATADIR="/home/user1/notesv4"
fi

while :
    do
        echo "Using Notes data directory: "$NOTESDATADIR
        echo "Please enter a new directory or press ENTER to accept current setting."
        read line
        case "$line" in
            ")
                NOTESDATADIR="$line";;
                esac
    done

echo $NOTESDATADIR > $HOME/.$myname.ndir

echo ""

if [ -f $HOME/.$myname.jdir ]; then
    JAVADIR=`(cat $HOME/.$myname.jdir)`
else
    # Default .class file directory.
    JAVADIR="/home/user1/javadir"
fi
```

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while:
  do
    echo "Using Java class file directory: " $JAVADIR
    echo "Please enter a new directory or press ENTER to accept current setting."
    read line
    case "$line" in
      "") break ;;
      *) JAVADIR="$line";;
    esac
  done
echo $JAVADIR > $HOME/.$myname.jdir

os=`(uname | awk '{print $1}')`
x86=`(uname -a | awk '/i86pc/{print "x86"}')`
os=`(echo $os$x86)`
case $os in
  SunOSx86) NOTESBIN="/opt/lotus/notes/latest/sunx86";;
  SunOS) NOTESBIN="/opt/lotus/notes/latest/sunspa";;
  AIX) NOTESBIN="/opt/lotus/notes/latest/ibmpow";;
  *) echo "unsupported platform"; exit 1; esac;
PATH=$NOTESDATADIR:$NOTESBIN:$NOTESBIN/res/C:$PATH; export PATH
$NOTESBIN/java -classpath $NOTESBIN/i18n.jar:$NOTESBIN/rt.jar:$NOTESBIN/Notes.jar:
$NOTESBIN/icsclass.jar:$JAVADIR $1

Designer

**Too many threads for DbDirectory object causes panic**

You must limit the number of threads that you use a DbDirectory object on. Once you start a search (getFirstDatabase) on a DbDirectory instance, you must only invoke getFirst or getNext on that same thread (properties should be ok on any thread). This limitation will be removed in a future release. SPR# ICAR03KRJR8

Client, Designer

**Using Java when Running Notes from a Server**

If you start Notes from a UNC path, a fault occurs when running a Java agent, or when attempting to start a Java applet inside of a document or form. The workaround is to use a drive letter mapped to the shared directory when starting Notes. SPR # WEBB3LUJN.

For example, instead of starting Notes with this syntax:

```
\server_name\share_name\directory\...\notes.exe
```

map a drive to the shared directory and use the following syntax:

```
g:\directory\...\notes.exe
```
Template Issues

Designer, Server

Checking the completion of an assigned task in the MAILW16 template
When you enter a group name as the assignee of a task in the MAILW16 template, recipients cannot confirm completion using the Complete button. Use individual names instead.

Client, Server

Creating a mail file using the mail template (mail46.ntf)
When you create a mail file using the mail template (mail46.ntf) and set it up to access the Web, the server name is set to the mail file owner's name by default. Change this field to the appropriate server name to access the mail file correctly.

Client, Designer

Frameset template
- The name of the target frame, as specified in the "Column of Links to Target Frame" and "SiteMap Links to Target Frame", is case-sensitive. Therefore, the name given to a frame in a Frameset doc and the specified target frames must match exactly. If they do not match exactly, the target frame is not found, and the link launches in a new window, not the desired target frame. SPR# VMAA3J6QK2

- Manual frameset URLs must use the full URL syntax, that is, //Server/Db.nsf/View/PageName. None of the shorthand notations supported by the frameset wizard (Pagename only; /ViewName; /View/PageName; or ~/Db.nsf/View/PageName) are supported when creating a manual frameset page. You must specify the full URL syntax because the manual frameset is streamed out "as-is" to the browser - no parsing takes place. If you want to find the specified page, you must use the full URL. SPR# VMAA3JKPUK

- The Frameset template has been designed and optimized for a display setting of 800 x 600. If you use other display settings, forms and dialogs may be too big or too small. For best results, set your display to 800 x 600 resolution. SPR# VMAA3J7NNR

Client, Server

Issues including attachments in Web mail forwards or replies
When using either the MAILW46.NTF or MAILC46.NTF template to provide browser access to Domino Mail, users will see some irregularities during the forwarding of attachments and for attachments contained within a "Reply with History."

Attachments will not be included in the message being forwarded or replied to when the sender of the message is a browser-based user: the Domino server loses the association with the attachment, so it will not be sent to the intended recipients. When the message originates from a Notes Client user, the attachments are sent along to the intended recipients properly.
Notes and Web templates
The following recommendations are for two templates:

- Discussion - Notes & Web (R4.6)
- Doc Library - Notes & Web (R4.6)

- It is recommended that you upgrade to Internet Explorer 3.02 before you use either template.
  If you plan on using Internet Explorer as your browser, you might want to upgrade to version 3.02
  before you use the either of the templates. Microsoft recommends this upgrade.

- Before you upgrade databases, turn off "Do not allow design refresh/replace to modify."
  Before you upgrade databases with either of the templates, you need to go to View - Design - Other
  of the old database and change the Document Properties for the following items: Icon, Using
  uncheck the selection "Do not allow design refresh/replace to modify."

- If you mark a document as Private and exit the browser, the document is saved.
  In databases created with either of these templates when you are using a browser, if you mark a
  document as Private and then immediately exit the browser, the document is saved.

- Do not use common names when asked to authenticate.
  When you are prompted to authenticate from a browser (for databases created with the "Discussion
  - Notes & Web (R4.6)" template), do not use the common form of your name if it is hierarchical. For
  example, do not type "Jane Smith." Instead, type "Jane Smith\CompanyX".

- You cannot use Notes as your browser with either of these templates.
  You cannot use Notes as your internet browser with databases created with either of these templates
  because Notes does not support JavaScript. All actions in these templates are generated with
  JavaScript. To work around this problem, select "Notes with Internet Explorer" as your Internet
  browser in your location record of your personal address book.

- On the Web in "Discussion - Notes & Web (R4.6)" and "Doc Library - Notes & Web" databases, you
  cannot see entire contents of Archive Profile in read mode. Most of the text is not displayed in the
  Archive Profile. Clicking on the button "Edit Archive" does allow you to see all text in the profile.
  SPR # PLOI3JCTW6

- In "Discussion - Notes & Web" database, closing an unsaved document takes you to the About page.
  If you close a document in a database created with the "Discussion - Notes & Web" template
  without saving it first, you are brought to the About page of the database. SPR # DDUE3KAPDT

- On the Web in databases created with the "Discussion - Notes & Web (R4.6)" and "Doc Library -
  Notes & Web (R4.6)" templates, if you click on a doclink for an archived document in an Archive Log,
  there is no link to get back to the original database. You need to use the Back button in your
  browser. SPR # PLOI3KJSZJ

- You cannot remove a category from a document created with a browser in databases created with
  the "Discussion - Notes & Web (R4.6)" and "Doc Library - Notes & Web (R4.6)" templates. This
  includes Main Topic documents as well as the Interest Profile in the Discussion database. Also you
  cannot remove Words and Phrases from Interest Profiles in the Discussion database if there is only
  one word or phrase. SPR # PLOI3JWN3E
In databases created with the template "Doc Library - Notes & Web (R4.6)," there is no user interface on the web to enable the agent "Process Late Reviews". You need to enable the agent via the Domino Designer client. SPR # PLOI3KPRDK

A Web a user who does not have create access, gets an error page when saving a document. SPR # PLOI3KMPQY and PLOI3KMQ5X

If you add a thread to an Interest Profile on the web and it has not title, you are not able to remove it from the profile. SPR # PLOI3KQT5M

You cannot use Notes as your Internet browser with databases created with the templates "Discussion - Notes & Web (R4.6)" or "Doc Library - Notes & Web (R4.6)" because Notes does not support JavaScript. All actions in these templates are generated with JavaScript. A work around is to instead select "Notes with Internet Explorer" as your Internet browser in your location record of your personal address book.

In the "Discussion - Notes & Web (R4.6)" template, the agents "Send Newsletters" and "Update Thread Maps" need to be enabled from the Notes client. You cannot enable them from the Web.

In databases created with the template "Discussion - Notes & Web (R4.6)" and "Doc Library - Notes & Web (R4.6)" you need to have Manager or designer access to the database to create an Archive Profile. For the Web, for the archiving agent to be enabled from a browser client, you need to modify the "Maximum Internet name and password access" setting in the Advanced section of the ACL to Manager and you need to have Manager access. If you do not wish to do this, Managers and Designers will still be able to setup archiving but the "Periodic Archive" agent should be enabled from a Notes client.

The anonymous user is listed with No Access to the discussion template. However, you can modify this setting. Anonymous users cannot create archive profiles, interest profiles and cannot mark documents as private. These options are not available to non-authenticated users.

Before using the templates doclbw46.ntf and discsw46.ntf, you need to edit your Server document in your Public Address Book on your Domino server. Go to the section "Agent Manager" and place the name of the user who signed the agents in the field "Run restricted LotusScript agents." For these two templates you can use the name "Lotus Notes Template Development/Lotus Notes" or, if someone modifies the agents, that person's name should be used. Placing an asterisk in this field gives all users access to run restricted LotusScript agents. All Web agents in these templates are set up to run with the user's access. All users should have author/Can Create and Delete documents set in the ACL. A Web user who wants to perform the archiving task needs to be listed as a Manager or a Designer of the database in the ACL.

The Reviewers field is not displayed on the Web in a document created in a database based upon the template "Doc Library - Notes & Web (R4.6)" if you use Netscape 3.0. A work-around is to scroll the document page and then the Reviewers field displays, or use Netscape 4.0.

The following features are not available on the Web in databases created with the "Discussion - Notes & Web (R4.6)" template: Archive Now; Open Archive Database. These features are available with the the Notes client. SPR # DDUE3KVQFM
LotusScript Issues

Client, Server

General Issues with LS:DO

- LS:DO is available on the OS/2, Windows 3.1, Windows 95, Windows NT, AIX, HP-UX, Solaris Intel Edition and SPARC Solaris platforms. See also the topic "LS:DO on the Macintosh platform" in this section.
- To use LS:DO, you must have a UseLSX statement in your script. This works only on a system that has the Lotus Notes client installed.
- The following is an overview of table creation with LS:DO:
  1. Construct a CREATE TABLE statement that specifies the types and sizes of the fields using the specific syntax required by the data source. Execute this query and Close the result set.
  2. Execute a SELECT * FROM [tablename] statement to set the field properties in the ODBCResultSet object.
  3. For each row, invoke AddRow, set values of fields using SetValue, and insert the data with UpdateRow.
  4. Invoke Close on the ODBCResultSet object to clean up.
  5. If you want to use this table later in the script, set a new SELECT statement and use Execute to re-initialize the result set properties. All the above can be performed using one ODBCQuery object and one ODBCResultSet object, as long as the indicated cleanups are done.

- The DeleteRow method, UpdateRow method, and HasRowChanged property of the ODBCResultSet object generate SQL statements to perform their operations. These statements can fail if the result set includes columns with types such as Image or Rich Text. LS:DO cannot update these types, so the SELECT statement that is used to populate the result set should exclude such columns, if DeleteRow and UpdateRow is used with that result set. If necessary, two result sets can be kept in parallel, one including such columns and the other excluding them. The SELECT statement for the result set used for updating works most efficiently if the specified columns are limited to those where values are altered, plus any others needed to uniquely identify the rows. Set On Error to trap DBstsNUNQ if you suspect that DeleteRow, UpdateRow, or HasRowChanged might not be identifying the row uniquely.

- The LSXODBC.LSS file referred to in the documentation is not supplied with Notes. Instead, all the constants are defined when the UseLSX statement executes.

- Any script that uses LS:DO and was compiled under a Pre-Release (Beta) version of Notes 4.6 must be recompiled under the released version. It would also have to be recompiled to run under older Notes versions, such as 4.51. Scripts that were last compiled under an older released version should work without recompilation.

- At the time Release 4.6 for UNIX shipped, the Intersolv Driver Pack version 3.01 for AIX did not function, as installed, with Notes/Domino on AIX. A problem report #500938 has been submitted to Intersolv to address. Version 2.11 of the Intersolv Driver Pack works with Release 4.6 for UNIX, but the code for 2.11 is not thread-safe, which could produce reliability problems when run with the Domino server.
**LS:DO in a Domino application**

If you use LS:DO in a Domino application and you allow multiple threads of execution, add this line to the NOTES.INI file on the server:

```
DominoAsynchronizeAgents=1
```

If no entry for DominoAsynchronizeAgents exists in the NOTES.INI file, the default value is 0.

Your ODBC driver manager and driver(s) must be thread-safe to run on a Domino server that is enabled for multi-threaded operation. Consult with your ODBC supplier, particularly if the ODBC package is not up to the ODBC 3.0 standard, to verify that the driver is thread-safe.

**LS:DO on the Macintosh platform**

ODBCConnection objects, ODBCQuery objects, and ODBCResultSet objects are not supported on the Macintosh in Release 4.6.1 and above.

**Server**

**ODBCConnection Object**

- Two new methods are added to support Transaction Mode, CommitTransactions, and RollbackTransactions. These take no arguments. The AutoCommit and CommitOnDisconnect properties are moved from the ODBCResultSet object to here. AutoCommit defaults to True and can be set False to enter Transaction Mode, if the driver and data source support transactions.

- Methods GetRegistrationInfo and IsTimedOut have been removed from the ODBCConnection object.

- The DisconnectTimeOut property of the ODBCConnection object has been permanently deactivated.

- The Exclusive property of the ODBCConnection object can be set but has no effect. ConnectTo will behave as if Exclusive is True.

- We have encountered cases where an ODBC driver indicated that it did not support a certain mode, although it actually did. The IsSupported property of the ODBCConnection object may report incorrectly due to bugs in the ODBC driver. On the DB_SUPP_READONLY item, it may report incorrectly due to limitations in ODBC.

- The planned support for asynchronous execution of queries has been removed. The IsSupported property of the ODBCConnection object will return False so that scripts that attempt to use asynchronous mode when available will behave correctly.

- The ConnectTo method of the ODBCConnection object does not perform the auto-registration of unregistered data sources.

- The ExecProcedure method of the ODBCConnection object is removed. A new ExecProcedure method is added in ODBCResultSet object to execute a stored procedure.

- The ListProcedures method of the ODBCConnection object does not work with some drivers.
Client, Server

**ODBCQuery Object SQL property**
The SQL property of the ODBCQuery object checks the SQL statement when set. Statements containing the word FROM without a table name may cause Notes to terminate. Notes can also terminate if it exhausts available memory during the checking phase.

**Designer**

**ODBCQuery Object**
A new property, UseRowID, is added to support "Select by RowID" mode. UseRowID defaults to False and can be set to true to enter "Select by RowID" mode if RowID is supported by the backend RDBMS. The statement "Qry.UseRowID=True" must be before "Qry.SQL=|SQL statement|" for it to take effect.

For example:

Dim Qry As New ODBCQuery
Qry.UseRowID = True  'enables "select by rowid" mode if supported by the RDBMS)
Qry.SQL = "select * from TableName"
Msgbox Qry.SQL  'will print "select *, TableName.rowid from TableName", and this SQL statement is used for subsequent operations"

**Designer**

**ODBCResultSet Object**
- The properties (AutoCommit and CommitOnDisconnect) where moved to the ODBCConnection object due to limitations of the ODBC standard. The AutoCommit property of the ODBCConnection object can be set False (when supported by the DBMS) to enter Transaction Mode, which applies to all queries and result sets associated with that connection. The AutoCommit and CommitOnDisconnect properties of the ODBCResultSet object are obsolete and should not be used.

- The Commit and Rollback functions of Close, and the Transactions method, are replaced by the CommitTransactions and RollbackTransactions methods of the ODBCConnection object. These new methods take no arguments and apply to all transactions pending through that connection. You might get error 720, "You cannot have more than one statement active, when SQL_AUTOCOMMIT is false" for INTERSOLV drivers. As a workaround, Lotus suggests to "Call Res.LastRow" after "Res.Execute" and before any "Res.UpdateRow" or "Res.Delete Row."

- The Asynchronous and Override properties of the ODBCResultSet object are removed.

- You can tell that a memory shortage caused truncation of the result set when, on the last row, IsEndOfData is True but NumRows are still DB_ROWSUNKNOWN.

- Setting the CurrentRow property to 0 raises an error (#545) once data has been fetched.

- To discard the AddRow workspace and any changes that might be in it, call the Close method with the argument DB_CANCELADDDRWO. The rest of the result set remains open.

- The documentation for the Close method shows the argument as optional, with DB_CLOSE being the default.

- The behavior to the Current Row property is corrected in Notes and Domino Release 4.54. See the Current Row, AddRow and UpdateRow Guidelines note below to assure proper behavior when updating data.

- Current Row, AddRow and UpdateRow Guidelines:

  UpdateRow leaves you on the current row. If you perform an AddRow followed by an UpdateRow, you remain at the added row. This behavior is identical for any row in the result set.
To Insert a Row, do

```ltx
res. AddRow
res. SetValue(1, data1)
res. SetValue(2, data2)
...
res. UpdateRow
```

To update any row in the result set, do

```ltx
res. CurrentRow = a_row_number
...
res. SetValue(1, data1)
res. SetValue(2, data2)
...
res. UpdateRow
```

To update a row once it has been added using AddRow

```ltx
res. CurrentRow = DB_ADDROW
...
res. SetValue(1, data1)
res. SetValue(2, data2)
...
res. UpdateRow
```

This last script example will position the cursor back on the last added row and update new changes.

- The DeleteRow method might raise the error about not being applicable to the AddRow workspace in some cases where a different error message applies.
- A new ExecProcedure Method is added in ODBCResultSet object to execute a stored procedure.

**Syntax:**

```ltx
status = odbcResultSet.ExecProcedure(procedureName$, [arg1] [,arg2] ... [,arg30])
```

**or,**

```ltx
status = odbcResultSet.ExecProcedure(procedureName$, DB_PARAM_ARRAY, argArray)
```

**Parameters:**

- `procedureName$`  
  String. The name of the procedure you want to execute.
- `arg1..30`  
  Up to 30 arguments may be passed to a procedure. The arguments can be in any format. An argument can serve as input, output, or both. Argument data types must be consistent with the requirements of the procedure. All arguments are separated by commas. Any missing arguments are treated as NULL values.
  
  The 30 argument limit is a LotusScript limitation.
  
  To enter over 30 arguments, you can use the alternate form. The second argument must contain the constant DB_PARAM_ARRAY. The third argument can be an array of any size or type.
Return Value

Depending on the definition of the stored procedure in RDBMS, it can return values in several forms:

- the procedure can return output arguments
- the procedure can return a result set
- the procedure can return an execution status

- The column specifier for all methods of the ODBCResultSet object that refer to single columns (GetValue or SetValue) cannot be of the Currency data type. All other numeric types work for columns specified by column number.

- GetValue can terminate abruptly when retrieving data of the SQL_LONGVARCHAR type, which is variously known as "memo" or "rich text" and other type names in various databases. This has been isolated as a problem in the ODBC driver. If available, try a later version of the same driver. Contact your ODBC vendor for additional assistance. SPR # DMAN3L5RRJ.

- GetValue does not recognize image formats and treats the data as arbitrary binary.

- The LotusScript variables used to store Date, Date-Time, and Time values should be declared as data type Variant or Double. For date-only values, the variable can also be of type String.

- GetValue detects attempts to store integers outside the range of -32768 to 32767 into LotusScript variables of the Integer type, which is a "short" integer, but the error 500 does not give specific error messages.

- The IsBeginOfData method returns 0 and IsEndOfData returns 1 when the result set has zero rows. If you do not know whether any rows are returned from your query, test for IsResultSetAvailable before using methods that assume that data is present.

- The NextRow method of the ODBCResultSet object should not be used in a While or Until loop control. Use IsEndOfData in the While or Until and perform the NextRow inside the loop. For Do loops, perform NextRow inside the loop at the top, and check IsEndOfData in a Loop Until clause at the end. If no other row-positioning methods have been invoked between Execute and the start of the loop, the first invocation of NextRow stay on row 1 to enable the loop to cover all rows.

- The RefreshRow method of the ODBCResultSet object has been removed.

- The SetParameter method of the ODBCResultSet object does not correctly set the value of a parameter inside single-quote marks. Instead the value of the parameter should incorporate the quote marks. For example, the following commands do not work as expected:

```
Myquery.SQL = "SELECT * FROM DATA WHERE CITY = '?city?' "
Result1.SetParameter(city,"Cambridge")
```

As a workaround, use these commands:

```
Myquery.SQL = "SELECT * FROM DATA WHERE CITY = ?city? "
Result1.SetParameter(city,"'Cambridge'")
```

- To specify a null value for SetValue, LocateRow, etc., use the NULL constant provided by LotusScript. LS:DO do not need its own DB_NULLVALUE constant.
Data conversion matrix
How to read: The data types in the left-most column represent SQL data types. The chart describes whether a data conversion is attempted from the SQL data type on the left to a LotusScript data type during GetValue. The opposite conversion happens for SetValue.

LotusScript Classes

<table>
<thead>
<tr>
<th>LotusScript Data Type</th>
<th>CHAR</th>
<th>Boolean</th>
<th>Short</th>
<th>Long</th>
<th>Single</th>
<th>Double</th>
<th>Currency</th>
<th>Date/Time</th>
<th>Variant</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>VARCHAR</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>LONG VARCHAR</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DECIMAL</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>NUMERIC</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>TINYINT</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>SMALLINT</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>INTEGER</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>REAL</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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</tr>
<tr>
<td>FLOAT</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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</tr>
<tr>
<td>DOUBLE</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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</tr>
<tr>
<td>BIT</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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</tr>
<tr>
<td>BINARY</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>VAR BINARY</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>LONG VAR BINARY</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>DATE</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>TIME</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>TIME STAMP</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Handling conversion errors and data truncation
A brief look at the data conversion matrix above shows that data conversion from string to numeric data types like double or currency are permitted. As expected, a conversion exception is generated if the string contains no numeric data. Alternatively, an exception is generated if data loss occurs. These errors are only generated when LSDO performs the data conversion.
Server

**Intersolv Driver Pack version 3.01 for AIX**

At the time Release 4.61 for UNIX shipped, the Intersolv ODBC Driver Pack version 3.01 for AIX did not function, as installed, with Notes/Domino on AIX. A problem report #500938 has been submitted to Intersolv to address. Version 2.11 of the Intersolv Driver Pack works with Release 4.61 for UNIX, but the code for 2.11 is not thread-safe, which could produce reliability problems when run with the Domino server.

Client, Designer, Server

**Using LS:DO on AIX**

The latest Intersolv Driver Pack version 3.02 for AIX contains an archived version of the driver manager libodbc.a, while LS:DO requires an executable or shared object version of the driver manager. To check the type of your libodbc.a, use command "file libodbc.a". In case of an archive file, you need to extract the executable or shared object version of the driver manager odbc.so with "$ar -x libodbc.a". Save the archived version and rename odbc.so to the new libodbc.a with "mv odbc.so libodbc.a" so that the driver manager is an executable or shared object file.

Designer

**LotusScript size restrictions (Windows 16-bit only)**

If you create or edit a large script using the Windows 16-bit version of Notes, Notes truncates this script once it reaches a certain size. Scripts that function correctly on a Windows 32-bit platform might no longer work if they are edited on a Windows 16-bit platform. However, scripts created on non-Windows 16-bit platforms operate properly on Windows 16-bit platforms if you do not edit them on this platform. Depending on the type of script truncated, Notes might not generate an error message when truncation occurs. Truncation occurs due to errors in the ccStr translation code. Scripts 24K and larger might encounter this issue.

Designer

**Backend Classes, Debugger, and IDE**

- The LotusScript Debugger on UNIX might lose the vertical scroll bar after branching to a subroutine. If the vertical scroll bar is not displayed, use the PageUp and PageDown keys to manipulate the Debugger window.
- When using the LotusScript IDE (Integrated Development Environment) on UNIX to create or update LotusScript code, if a syntax error is detected and an error message appears, the error message does not disappear when the error is corrected.
- The event dropdown list in the Programmer's Pane might display the last item as blank. Scroll down to view all items.

Designer

**Front-End classes**

Notes might terminate in the Calendar view after emitting Messageboxes in the following NotesUIView events: Querydragdrop, Postdragdrop and Queryaddtofolder.
@DbCommand, @DbColumn, and @DbLookup in "ODBC" and "DLENS" classes

- The @Db functions establish new connections to the ODBC data source each time they are invoked.
- The @DbCommand function can be used to invoke arbitrary commands, but it might display an error indicating that it cannot transform the results into a dataset to be returned.
- The @DbLookup function obtains data by matching specified key values against a "key column" in a database. When used with ODBC data sources, each ODBC driver introduces its own implementation of data types which might not mesh with the Notes data types. Problems can range from being unable to find the data to an abnormal termination of Notes.

In @DbLookup, the "key value" (or "where value") should be specified using the Notes type that agrees with the type of the key column in the datasource. For example, specify a number or a number-valued expression when the key column is of any numeric type (integer, real, float, and double).

The workaround for failing lookups is to use a SQL select statement in @DbCommand. For example, this lookup keyed on a date-time field might not work:

```
@DbLookup("ODBC";...;"TABLE";"NAME";"REGDATE";@Date(1995,8,1,12,0,0))
```

but the database might accept the "ts" syntax for date-time. You could then use the function

```
@DbCommand("ODBC";...;"select NAME from TABLE where REGDATE = (ts '1995-08-01 12:00:00')")
```

that sends the SQL statement explicitly. You should use the syntax needed for your database; "ts" is the SQL standard for specifying timestamps.

A new "silent mode" parameter is added to LS:DO. This parameter allows control for suppression of the user id and password prompt from the RDBMS. The syntax is:

```
@DbCommand( "ODBC" : "NoCache" ; DataSource : "Silent" ; UID; PSW; CommandString : NULL) or
@DbCommand( "ODBC" : "NoCache" ; DataSource : "NoSilent" ; UID; PSW; CommandString : NULL)
```

Using @Command([FileCloseWindow])

Using @Command([FileCloseWindow]) in a form QueryOpen event causes Notes to crash. SPR # SDOE3LES3F

@ClientType is case sensitive

@ClientType is not evaluated correctly if the strings "Notes" and "Web" are not in proper case. If you type "Notes" or "Web," the formula is evaluated; however, if you type it any other way, the formula is not evaluated.

Browser in LotusScript unavailable after saving agents

When you create, save, and reopen a LotusScript agent, the Show Browser selection box does not reappear.
Designer

**F1 in the LotusScript browser**
F1 does not work correctly in the LotusScript browser for items containing an asterisk (*) or less-than sign (<). The wrong help topic might appear.

Designer

**IDE issue**
The edit history for the current object is not cleared. When you run a script under the debugger and set breakpoints, subsequently running a different script might set the same breakpoints for this script. In addition, after compiling a script with errors, the same errors might appear when compiling a different script.

Client, Designer

**Notes class design and interoperability**
The Notes classes for LotusScript were significantly enhanced for Notes 4.5 and again for Notes 4.6.1. If you modify the design, the scripts associated with the design are updated and recompiled automatically. This provides you with the new features and benefits found in Release 4.5 with no additional effort.

**Note:** Once the scripts are updated, Notes 4.11 clients cannot use the design. If your organization uses both Notes 4.11 and Notes 4.5/4.6, Lotus recommends that you make changes to the design only through Notes 4.11 clients until you move completely to Notes 4.5 or 4.6.1.

Designer

**NotesUIDatabase - Postdocumentdelete event**
Do not enter any script in the Database Script - Postdocumentdelete event that you do not want executed by unauthorized users, since Postdocumentdelete occurs before user authorization is validated.

Designer

**Property changes in NotesItem and NotesRichTextItem classes**
- In the NotesItem class, the IsAuthors and IsNames properties are now read-write, rather than read-only.
- In the NotesRichTextItem class, the EmbeddedObjects property is read-only, not read-write.

See the Notes Class Property updates topic in the Documentation Updates chapter.
Using Date/Time Values in LotusScript

Converting Notes date/time items to LotusScript date/time objects can cause unexpected results. This problem happens when directly accessing a date/time field on a NotesDocument object without using the NotesItem and NotesDateTime backend classes.

The following two LotusScript examples might not work when crossing time zones, changing date/time display formats, or using a time field 12:00 a.m.:

**Example One:**

```lxml
Dim note as NotesDocument
Dim starttime as Variant
...set value of note
starttime = note.StartDateTime(0)
```

**Example Two:**

```lxml
Dim note as NotesDocument
Dim stardt as NotesDateTime
...set value of note
starttime = New NotesDateTime(note.StartDateTime(0))
```

The workaround is to use the NotesItem backend class as follows:

```lxml
Dim note as NotesDocument
Dim someitem as NotesItem
Dim somedt as New NotesDateTime(""")
...set value of note
set someitem = note.GetItem("StartDateTime")
set somedt = someitem.DateTimeValue
```

Log.LogEvent BackEnd Class method

The queue argument must be a name, not an empty string. Notes cannot determine the default queue.

LSXs can fail to load during execution

LotusScript loads an LSX at the start of execution using the registry entry (or equivalent on other platforms). When LotusScript first encounters use of that LSX, it reloads it and uses the hardcoded pathname compiled into the symbol by the LotusScript compiler (the LSX pathname when it was compiled). If the LSX has moved, the script fails because it cannot be found.

A workaround is to ensure that the LSX paths match at compile-time and run-time. (This does not work for cross-platform cases. If LSX is being compiled for a single platform, this solution does work). SPR # KBET3JZJVM
**NotesDateTime adjust functions**

When the date object consists only of the date component, AdjustHour and AdjustMinute will alter the date if the adjustment causes the date to cross a day boundary. The documentation states this incorrectly.

**Designer**

**OLE operations**

There are known general problems involving embedded objects in Java agents on Windows 95. OLE operations do not work under the following circumstances:

- A LotusScript agent is invoked via the HTTP server
- In Java applications
- In Java agents

This applies to any method that requires an IDispatch handle (for example, EmbeddedObject.activate, doVerb).

**Designer**

**recycle() methods for Notes back end classes**

When using the Notes 4.6 Java classes in an agent with a large number of objects, sometimes the program runs out of memory. This is due to the inability of the Java Garbage Collector to recover Notes objects. To recover the used memory, Lotus has introduced recycle() methods on all back end object classes with the exception of Session. If you are running into an out of memory situation, recycle objects as they go out of scope, particularly in situations where you are looping through a DocumentCollection pulling information out of documents, or creating new documents. When you are sure that a document is no longer needed, call mydoc.recycle() to recover the memory for the document "mydoc" and its child Items. Since the Domino server conserves resources by reusing its objects whenever possible, this is primarily useful in single threaded agents and applications. However, there are some situations which are useful in a multithreaded environment noted below.

**Guidelines for usage:**

1. There is no need to recycle any objects if you are not having memory problems. Many Java agents run fine.
2. Be absolutely sure that neither the object nor any of its children are accessed after recycling.
3. Recycle objects only where they are created. You should be able to easily see in the source code where an object is created and where it is recycled. Do not attempt to recycle objects on a different thread.
4. Recycling a parent implicitly recycles its children.
5. Look for loops that enumerate Documents in a collection as good opportunities to recycle objects.
6. Do not recycle objects that you have not created - for example do not attempt to recycle the objects that you have obtained from the Agent Context, such as the database you get by calling the CurrentDatabase() method.
7. In a multithreaded Java application or agent, it is safe to recycle a database and/or its child objects only if the database is accessed on a single thread. This is because the recycle method directly destroys the heavyweight Back End objects which may be shared among threads, leaving other threads vulnerable to null pointer exceptions.
SSL Issues

Server
Authorization/authentication and redirection with SSL
If you must enter your name and password over an HTTP connection and then are redirected to HTTPs because of the database setting or Public Address Book setting, you are prompted for your name and password again if that is required.

Microsoft IE browsers do not connect over SSL if a self signed certificate is used on the server. SPR # SONL3L3NXF

The server certificate will fail to merge into the key ring if the Common Names are the same in the Certificate Authority's Distinguished Name and the Server Certificate's Distinguished Name. SPR # BDAS3KWSM9

Server
Client certificate requests and SSL 2.0 (HTTP only)
If client certificates are requested by the Domino server and the supported browser only has SSL 2.0 enabled (SSL 3.0 is disabled), the browser cannot establish an SSL session even if anonymous or name and password is enabled. In Netscape, a connection refused error occurs and MS IE cannot open the Internet site. SPR # SONL3KNRFD.

Server
Copying certificates using OS/2
On OS/2, the online directions for using CTRL+C to copy certificates in the Certificate Authority and Certificate Administration applications does not work. Use CTRL+INS instead. SPR # DMEA3K3QRN

Server
Determining if SSL is listening on the server port
Type

Netstat -a
at the command level prompt to display all the ports that TCP/IP is listening on. HTTP/SSL listens on port 443 unless you changed this setting in the Server document.

Server
Error messages with the certificate authority application
You need to edit the ACL of the Certificate Authority database (certca.nsf) and assign yourself (as the administrator) and any one else who is administering this database the role called [CAPrivilegedUser]. If you don't have this role, then these three error messages are displayed:

View or Navigator 'defView' does not exist (Click OK).
You have insufficient access to perform this operation (Click OK).
View or navigator 'defView' does not exist (Click OK).

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Server

**Expired client certificates with Netscape**

Netscape expired client certificates do not authenticate when the server record's default is enabled to allow them to authenticate. The browser hangs indeﬁnitely.

Server

**IMAP connection with an SSL to NLM platform**

When an IMAP connection over SSL is performed on an NLM platform, an operating system lock can occur when the indexer task starts on the server. When an IMAP connection over SSL is established on an NLM platform, attempting to quit the 4.6.1 Domino server might cause a page fault.

Server

**NNTP: Unable to authenticate using Netscape browser and Verisign client certificates over SSL**

**Workaround:** If you enable both Client Certificate and Anonymous in the Internet Port & Security Configuration section in the server record this works properly.

Server

**Server Certificate Administration application becomes a template after Design is run**

Notes setup automatically creates the Server Certificate Administration application. The ﬁrst time that the server task Design is run on the server, the database properties are changed so that the property Database is a Template is checked. This has no impact on the functionality of the database and does not occur again if the setting is changed to the correct setting Inherit Design from Template for StdNotes46SSLAdmin. SPR # BDAS3M8JQR

Server

**Server certificate requests and MS Internet Explorer 3.02**

Using the Certificate Authority application with Microsoft Internet Explorer 3.02, if you try to request a server certificate and you put a question mark ("?") in the comments ﬁeld, the connection is terminated. Avoid question marks with MS IE in this ﬁeld. SPR # MDEU3KBPL9

Server

**SSL administration**

A problem exists where you cannot cut and paste the certiﬁcate from the "Creating Certificate Request" form.

**Workaround**

When creating a certificate request, from the Server Certificate Admin database, if you are using the "Paste into form on CA's site" method of transferring the certificate to the Certificate Authority database, you need to get the certiﬁcate from the "View Certificate Request" view.

To do this, choose the "View Certificate Request" view from the left hand side of the screen and select the appropriate clipboard.
SSL initialization error on server console
"HTTP Server Initialization error. Possible missing or invalid key ring file. SSL is disabled" could appear on the server console screen if you have enabled SSL in the server document, but the keyring does not have a valid certificate, unsigned by a trusting authority, or expired. This could also occur if you are upgrading to 4.6a or 4.6.2 from 4.5x and you did not have the ssl key ring configured with a signed certificate. SSL was enabled by default in prior versions to 4.6a. SPR# SONL3K2TD7

SSL on a multiple virtual-server machine
When setting up the server SSL key ring, Lotus recommends that the Common Name field of the Distinguished Name be set to match the Web site URL as some browsers check that the Common Name and Web site URL match before allowing a connection. Since there is only one SSL server key ring allowed per physical Domino server, the Common Name field of the key ring can match the DNS name of only one of the virtual servers.

SSL on NLM not certified
IMAP, LDAP and NNTP connections over SSL on the NLM platform have not been certified. It is not recommended for use on this platform but is functional.

SSL: Use the file method when merging a certificate into a server keyring on UNIX platforms
On UNIX platforms, you might encounter a problem merging a certificate into a server keyring using the copy and paste method. Some UNIX editors might convert embedded carriage return characters (0x0d) to ASCII text ("^M"), rendering the certificate unreadable. Use the file method instead.

Tip to obtain Client Certificates from Verisign for MS
If you have trouble submitting your request for a client certificate for MS at the Versign Web site, set your options in your browser under Security - Safety Level to Medium instead of the default (High) to finish the request successfully. This has been observed several times.

Unable to add X509 certificates to secondary NAB’s if user exists with the same name in primary NAB
The request gets processed without errors; however, the X509 is added to the user in the primary NAB even though you selected the user in the secondary NAB.
**Server**

**Unable to connect to server over SSL (TCP error):**

"A network error occurred: Unable to connect to server (TCP error:) The server could be down or unreachable." Try connecting again later (Netscape).

Microsoft Internet Explorer also cannot connect, "A connection to the server could not be established."

If you are running an international server and have created a large key ring (1024), any browser trying to connect over SSL to reach the server cannot connect unless the Global Server ID is present in the key ring, which allows a 128-bit SSL session.

**Server**

**Unknown certificate handling error**

If you submit a server certificate request created from a Release 4.6.2 server’s keyring and submit it to a 4.6a server’s Certificate Authority database, you receive an Unknown Certificate Handling error. The CA database must exist on a 4.6.2 server to receive 4.6.2 server certificate requests.

**Web Navigator Issues**

**Client**

**Web browser issues**

- When you use the Personal Web Navigator database, you must use the filename, Names.NSF, for your local Personal Name and Address book. The Personal Web Navigator does not function properly if this file is so named; otherwise, you receive the message, **Database names.nsf has not been opened yet**, each time the Personal Web Navigator database is opened.

- The Web Navigator uses processes instead of threads. The maximum number of processes can be controlled with the concurrent retrievers setting in the location record. The default value for this setting is four and should be reduced for those running on low memory systems who encounter memory related problems, such as:

  The Notes client might crash when you import bookmarks on a low memory system with several concurrent retrievers selected. Changing the concurrent retriever setting to two should prevent this problem. On Windows 95, you can resolve the **Out of virtual memory** error by changing this setting.
Client

**Notes with Internet Explorer browser**

- If Microsoft Internet Explorer is not installed on your system and you select Notes with Internet Explorer as your browser, you receive the message, **Notes requires Internet Explorer 3.0 or greater**. Select OK to close this dialog box. You receive this message each time you run Setup, launch a new Notes session, open the Web navigator database, or edit the Location document. To eliminate this error, you must either install Microsoft Internet Explorer or change the Internet browser option so that Notes with Internet Explorer is no longer selected.

- If Microsoft Internet Explorer is not installed and you select Notes with Internet Explorer as your browser, and if you enter a URL open command and open the document, you receive the message, **Variant does not contain an object**.

- Using the Forward - Forward the page or Share - Copy page actions does not save data that is not supported by the native Notes browser (for example, frames).

- If you want to set Notes as the default web browser for your system, you can do so by selecting File - Tools - User Preferences and then select **Make Notes my default web browser** in the Advanced options listing. This option is not selected by default. If you decide to switch your default browser back to Internet Explorer or Netscape, you can do so as follows:
  
  Internet Explorer: Launch Internet Explorer. If Explorer opens a dialog asking if IE should be made the default browser - select Yes. If Internet Explorer does not open a dialog asking if IE should be made the default browser - select View - Options, select Programs panel, and activate the checkbox which will cause this dialog to be displayed and restart IE.

- If you want to set Notes as the default mail client for your system you can do so from the system Control Panel - Internet applet. On the Programs tab select Lotus Notes Mail, then press the Apply button, then the OK button. If you are upgrading to 4.6.1, Lotus Notes Mail might already be selected.

- If the user preference Make Notes my default web browser is selected the http registry key is changed to launch Notes for these file types. The https registry key cannot be changed. If you want to have the Notes browser autolaunch for these file types and you must change the HKEY_CLASSES_ROOT\https\shell\open\command using REGEDIT.
  
  **Steps:**
  
  Open the HKEY_CLASSES_ROOT\http\shell\open\command key file using REGEDIT
  Select Edit - Modify
  Enter Ctrl+C to copy data string.
  Select Cancel
  Open the HKEY_CLASSES_ROOT\https\shell\open\command key file using REGEDIT
  Select Edit - Modify
  Enter Ctrl+V to paste data string.
  Select OK to save.

  **Note:** Only use this method if you are familiar with the REGEDIT utility.

- If you have deselected the option Automatically store pages for disconnected use you can store select pages by opening the page, selecting Add Bookmark, select Copy of page for off-line use, choose the folder to store the page in, then click OK.

- Rendering of HTML forms in preview is done using the Notes converter and therefore do not support those elements not yet supported by the Notes browser. Opening the page in the full document window renders the page using Internet Explorer.

- The wait cursor may flicker excessively when retrieving some pages. This is a known anomaly.
There is a current limitation with the Internet Explorer/Notes integration, which prevents pages requiring authentication from being updated via the PageMinder agent if using the Notes with Internet Explorer browser. The workaround for this limitation is as follows: Switch the Internet browser selection in your location document to Notes, retrieve the desired page (entering username and password information as needed), close the document window, drag/drop the page into the PageMinder folder, and switch the Internet browser selection in your location document back to Notes with Internet Explorer.

Some keyboard commands may not work as expected when the focus is set to the browser pane:

If you click within the browser pane, enter Ctrl+L to open the Open URL dialog - the Internet Explorer Open dialog is displayed and although a URL string can be entered - clicking OK or entering a carriage return does not initiate retrieval of that page. Focus can be rest by clicking on the Notes menu bar.

In SDI mode: Setting focus within the preview pane containing a page retrieved using Notes with Internet Explorer then entering Ctrl+O will open the Internet Explorer Open dialog instead of the Notes Open Database dialog. Focus can be rest by clicking within any of the other panes or as above on the Notes menu bar.

If you do not enter your password when prompted and select cancel when opening the Personal Web Navigator with the preview pane exposed you receive Execution Security Alerts. Entering your password when prompted eliminates the appearance of these dialogs.

Keyboard commands may become disabled when focus is set on a document opened in the WebBrowserForm after retrieving several pages using Notes with Internet Explorer. When in this state the keyboard commands continue to function properly within other windows but mouse commands are necessary within the browser document window.

Java applets might not activate or can cause MS Explorer 3.02 to hang after you have installed Windows NT 4.0 Service Pack 3. The application stops responding only if the Display Properties Color Palette is set to True Color (this also occurs using Notes with Internet Explorer). There are two workarounds: do not use the True Color Palette, or download a fix from Microsoft to be included in the next Service pack for NT 4.0 (Note: this fix has not been fully tested by Microsoft as of this posting).

If you are using the Notes Client as a browser, the settings in your location document to update cache override the cache settings in Internet Explorer. To access and manipulate mail from the Web, the cache must be set to Update Cache "Every time." To view or change this setting in Notes, go to the location record, Advanced Section, Web Retriever Configuration, and view the "Update Cache" field.

Client Notes client browser

When you use the Notes Internet browser from the workstation to retrieve pages, you might get the message, **Could not create array of NotesDatabase (GetCurrentLocation)**. This message appears if the current mail server is not responding and if the current process is stopped with CTRL+Break. Close the message box to allow the page to finish loading.

The Copy page option for the Share action is not supported for bookmark files with the Notes browser selected. To perform this function - retrieving the page and using the action from the All Pages view copies the page as desired.

Opening a bookmark file with the Notes browser selected does not cause the page referenced in the bookmark file to be loaded automatically. Selecting the reload action loads the page.
• In SDI mode, if Open Home page is selected in the Internet options for the Personal Web Navigator database and the database is opened from the Favorites view, the document window containing the home page might display behind the view window. If this occurs, click on the home page window or select it from the window menu to reset the focus.

• Bookmarks that come with the Personal Web Navigator database were created using the Notes with Internet Explorer browser option and generate the message, **Variant does not contain an object**, if opened using the Notes browser. If you are using the Notes browser and you want bookmarks for these pages, you can retrieve the desired page and select Add Bookmark to create a bookmark in the folder of your choice for future use.

**Server**

**Performance enhancement (OS/2 only)**
To increase Web retrieval performance on OS/2 Domino servers, add the following parameters to your CONFIG.SYS file:

- PRIORITY_DISK_IO=NO
- PRIORITY=ABSOLUTE

**Client**

"Open Link in New Window" opens linked file in Internet Explorer 4.x
This problem occurs when the Internet Browser selected in your Location document is "Notes with Internet Explorer" and you are using Microsoft Internet Explorer 4.x. If you right-mouse click on an image on a web page and select "Open Link in New Window", the linked page launches in Internet Explorer rather than Notes. You may also find this behavior on certain web pages without selecting "Open Link in New Window".
Chapter 4 - Documentation updates

Extending the Domino System

Server

**Bind to host name and virtual servers**
In Chapter 2 of *Extending the Domino System* in the topic "Hosting multiple sites on one server," step 8 incorrectly includes information for enabling the option Bind to host name. Do not enable this option in the Server document when setting up virtual servers.

Server

**Customizing Web server messages**
In the "About Customizing Web server messages" topic in *Extending the Domino System*, you must select "Virtual Server Settings" in the Server type field and enter the IP address of the virtual server in the "IP Address (or host name)" field if you want to customize messages for virtual Web servers.

Server

**Improving Web server performance using the Command Cache**
In Release 4.6.1, Domino caches in memory pages that contain @functions in addition to HTTP commands, databases, and user names. This feature is not documented in online Administration Help or the printed books. Previous releases of Domino did not cache pages that contained @functions, since many of the @functions made the pages too volatile for caching. The area of memory reserved for this type of cache is called the Command Cache.

This feature is turned off by default in Domino. To turn on this feature, enter the following line in the NOTES.INI file on the Web server:

```plaintext
DominoAnalyzeFormulas=1
```

Domino analyzes the @functions on a page and then determines whether the page should be cached. Domino does not cache pages that contain @functions that cause the content to change frequently since the information in the cached version would quickly become out of date. Domino uses a cache flag and a cache strategy to determine the level of restriction for an @function. If a page contains multiple @functions, then the @function with the highest level of restriction is enforced.

The following are flags that Domino assigns to pages that are candidates for the Command Cache:

- **UserVariant** --a page is dependent on the user's identity. Flagged as a candidate only if the user is not authenticated with the server.
- **DesignUserVariant** --a page is from a database that contains protected design elements. Flagged as a candidate only if the user is not authenticated with the server.
- **DbData** --a page uses data in the database other than the current document's data.
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- **UsedDocId**--a page uses the document ID.
- **UsedNewDoc**--a page uses a new document.

If the page does not contain a flag or if it contains flags other than the ones listed above, then Domino does not cache the page.

In addition, Domino uses a cache strategy to determine whether the cached page is still valid. For example, if the content of a document changes or if the design changes and the @function depends on the document or design of the database, then the cached response is invalidated and the page is again evaluated.

Here are some examples of @functions contained in pages that Domino caches:

- @Created
- @DbManager and @DbTitle (if the user did not authenticate with the server)
- @DocumentUniqueID
- @GetDocField and @GetProfileField (if the user did not authenticate with the server)
- @InheritedDocumentUniqueID
- @Modified and @NoteID
- @Responses
- @UserName, @UserPrivileges, and @V3UserName (if the user did not authenticate with the server)
- @ViewTitle

Here are some examples of @functions contained in pages that Domino does not cache:

- @Now, @Today, @Tomorrow, @Yesterday, and @Zone
- @GetPortsList
- @Unique and @Random
- @MailSend

You can check Command Cache performance by monitoring the following server statistics:

- **Domino.Cache.Command.MaxSize**--the maximum number of commands that can be cached. You set this option in the Server document in the "Maximum Cached Commands" field.
- **Domino.Cache.Command.HitRate**--the percentage-ratio of the number of times a valid cache entry is found in the cache compared to the number of times Domino checked the cache for an entry. If Domino checks the cache 100 times and 50 of those times it finds the cache entry, then the hit rate is 50 percent. You want the hit rate to be high.
- **Domino.Cache.Command.DisplaceRate**--the percentage-ratio of the number of times that a new cached commands displaces an aged command compared to the number of times Domino checked the cache for an entry. If Domino checks the cache 100 times and 20 of those times it replaces an already-cached command, then the displacement rate is 20 percent. You want the displacement rate to be low.

To modify the Domino cache analysis, add the following fields to a form:

- **$CacheOptions**--enter "0" to prevent Domino from caching any pages created with this form.
- **$CacheValid**--numeric text field that protects a cached response from validity checks for the number of seconds specified. You can set this in the NOTES.INI file for all documents on a server by entering DominoDefaultCacheValid=number. The default is 0.

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Server

Limiting searches on the Web
Chapter 2 of the printed version of *Extending the Domino System* does not include information on the new settings in the Server document for setting the Search limit for users accessing a database from a browser. For the most up-to-date information, see online Administration Help (helpadmn.nsf).

Server

Setting up and securing ports for the Domino Web server
The topics "Setting up the Domino Web server," "Securing the TCP/IP port for a Web server," and "Securing the Web server with SSL" in the printed version of *Extending the Domino System* do not contain the correct procedure. For the correct procedure, see online Administration Help (Helpadmn.nsf).

Server

Web administration tool updates
- The "About setting up the Web Administration tool" and "Setting up the Web Administration tool" in Chapter 2 of *Extending the Domino System* incorrectly states that the administrator's name needs to be added to the "Run restricted LotusScript agents" field of the Server document. The name "Lotus Notes Template Development/Lotus Notes" is automatically added to the field when you set up the Web Administration tool. You do not have to add the administrator's name to this field. SPR # MPEY3K5Q2R.

- The "About setting up the Web Administration tool" in Chapter 2 of *Extending the Domino System* neglects to mention that the Web Administration tool uses the Statistics & Events database (EVENTS4.NSF). SPR # MPEY3K5Q2R.

- "About setting up the Web Administration tool" in Chapter 2 of *Extending the Domino System* incorrectly states that the Web administration tool uses the Domino Web Server Log database (DOMLOG.NSF). The Web administration tool does not use this database. SPR # MPEY3K5Q2R.

- The "About setting up the Web Administration tool" in Chapter 2 of *Extending the Domino System* should mention that the Web Administration tool uses the Collector database (COLLECT4.NSF) if the Collector task is running on the server.

Server

OS-Level SendMail agent must be disabled to run the Domino SMTP/MTA add-in
If you run the Domino server on either the UNIX/AIX or OS/2 platform, and the SendMail daemon (AIX) or SENDMAIL program (OS/2) is loaded prior starting the Domino server, you cannot run the SMTP/MTA server add-in task. Both SendMail and the SMTP/MTA use port 25 to listen for incoming connections, and you can only run one of these programs at a time to provide incoming mail service. If you want to run the SMTP/MTA on Domino, you must first disable the SendMail program.

Server

Creating a full text index for the Public Address Book
Lotus strongly recommends that you create a full text index for the Public Address Book on an LDAP server; in most cases this step improves the performance of LDAP client searches. For the most up-to-date information, see the topic "Creating a full text index for the Public Address Book on an LDAP server" in online Administration Help (HELPADMN.NSF). The corresponding information in the printed version of Chapter 6 of *Extending the Domino System* is not up to date.
Server

**LDAPReferrals**
The NOTES.INI setting LDAPReferrals is incorrectly spelled in the topic "About creating Directory Assistance documents for LDAP servers" in Chapter 6 of the printed version of *Extending the Domino System*. It's spelled correctly in the corresponding topic in online Administration Help (HELPADMIN.NSF).

Server

**Netscape Communicator LDAP users**
The following information is omitted from Chapter 6 in *Extending the Domino System*.

Netscape Communicator 4.0 LDAP users can only use the "ends with" search operator if the "Minimum characters for wildcard search field" if set to 0 for the Domino LDAP server and the Public Address Book on the LDAP server is full text indexed. For example, if there are two organizations represented in the Public Address Book, northacme and southacme, and a user enters the criteria "search for items where the organization ends with acme," no search results are returned if the "Minimum characters for wildcard search field" in the Domain Configuration document for the LDAP server is set to 1 or higher or the Public Address Book is not full text indexed.

Server

**About a Domino NNTP server and advanced services**
In the section entitled "About a Domino NNTP Server and Advanced Services," under "Partitioned Servers," the following should replace the current text:

NNTP is not supported on Partitioned Domino servers.

Server

**About NNTP newsfeeds**
This correction applies to the section entitled "About NNTP newsfeeds" in Chapter 7 of *Extending the Domino System*.

The fourth paragraph in the section entitled "About NNTP newsfeeds" is incorrect. When you pull newsgroups and articles for the first time, the "initial" feed transfers new articles that have been posted within the past three days of the current date and time.

Server

**Accessing private newsgroups**
To access a private newsgroup or any newsgroup that does not allow Anonymous access:

Configure your NNTP newsreader or remote NNTP server to supply a user name and password when connecting to your Domino NNTP server.

This username/password pair must correspond to a Person document in the Public Address Book.
Server

**Configuring an initial newsfeed**

An initial newsfeed to or from a remote NNTP server transfers new articles that have been posted within the past three days in the newsgroups specified for the newsfeed. You can configure the initial newsfeed to transfer more articles or fewer articles, using the `NNTP_Initial_Feed_Days` variable or the `NNTP_Initial_Feed_All` variable in NOTES.INI.

The `NNTP_Initial_Feed_Days` variable in NOTES.INI specifies the number of days in the past that your NNTP server should use when requesting or sending articles during an initial newsfeed. For example, to request all articles on the remote NNTP server posted during the past week, set `NNTP_Initial_Feed_Days=7`.

The `NNTP_Initial_Feed_All` variable in NOTES.INI can be used to transfer all articles to or from a remote NNTP server during an initial feed. Set this variable to 1 to transfer all articles during the initial feed (`NNTP_Initial_Feed_All=1`).

Server

**Configuring article expiration in auto-created newsgroups**

When a newsgroup is created, the default behavior for expiring articles is to delete articles five days after they are last accessed. To change this behavior, use one or both of the following NOTES.INI settings:

```
NNTP_Delete_Days=X
NNTP_Delete_Days_Expired=Y
```

where `X` is the number of days before an inactive article will be deleted, and `Y` is the number of days before an article marked "EXPIRED" will be deleted.

For existing newsgroups, these settings can be changed in the Archive Profile document.

Server

**Console command for deleting newsgroups**

You can use the following server console command to delete newsgroups on an NNTP server. This information is not included in *Extending the Domino System* or in Administration Help (HELPADMIN.NSF).

To delete one or more newsgroups, type:

```
tell NNTP newsgroup delete group_name(s)
```

*where group_name(s) is the name of a newsgroup. You can use wildcards to indicate more than one newsgroup. For example, for `group_name(s)` you can specify rec.skiing or comp.groupware.*

Server

**Creating NNTP newsgroups manually**

To create newsgroups manually, the NNTP Administrator can use the server console command:

```
> tell nntp newgroup groupname
```

*where groupname is the name of the new newsgroup.*
If the new newsgroup is a private newsgroup, the NNTP Administrator must open the newsgroup database and edit the Database Profile document by selecting Actions - Edit Database Profile from the menu. The Database Profile document lets you designate a newsgroup as private or private/moderated, and lets you specify access rights for private newsgroups.

You can also create NNTP newsgroups manually from the administration panel on the Domino NNTP server or from a remote Notes 4.6 client using the menu commands File - Database - New.

If you use File - Database - New from the administration panel on the Domino NNTP server, the new NNTP newsgroup is immediately visible to all NNTP clients, Notes 4.6 clients, and Web browsers. When you open the database a "Database Profile" document appears, which you must Save (click the "Save and Close" button) before this group appears to NNTP clients and servers. The Database Profile document lets you designate a newsgroup as private or private/moderated, and lets you specify access rights for private newsgroups.

If you use File - Database - New from a remote Notes 4.6 client, the newsgroup might not be visible to NNTP clients and remote NNTP servers for up to two hours. To resolve this problem, you can restart the NNTP server using the console command:

```
> tell nntp quit
```

followed by the console command:

```
> load nntp
```

When you open the database a "Database Profile" document appears, which you must Save (click the "Save and Close" button) before this group appears to NNTP clients and servers. The Database Profile document lets you designate a newsgroup as private or private/moderated, and lets you specify access rights for private newsgroups.

Users (without access to the server console) can either ask the NNTP Administrator to create a newsgroup on their behalf, or create one from a remote Notes 4.6 client using File - Database - New. Newsgroups created in this way might not appear to NNTP clients and remote NNTP servers for up to two hours or until the NNTP server task is restarted using tell nntp quit and load nntp at the server console.

Server

**Cross-posting articles locally (Notes clients and Web browsers only)**

When the NNTP server is started for the first time, it creates a database called NNTPPOST.nsf from the template NNTPPOST.ntf. This database is used to cross-post articles created by Notes clients or Web browser clients to multiple newsgroups on your server. The articles are cross-posted at scheduled intervals.

Server

**Domino NNTP server updates**

Much of the information in Chapter 7 of the printed version of *Extending the Domino System* is not up to date. Refer to the online Administration Help database (HELPADMIN.NSF) instead for updated information on setting up a Domino NNTP server.
Server

**Moderating a private newsgroup**
To moderate a newsgroup that is marked as private and moderated, the moderator must use a Notes client. Newsgroups cannot be moderated from a Web browser.

Server

**NNTP event log**
There is a NNTP Events view in the Notes Log database (log.nsf) that provides information on each NNTP feed (Pull, Push, Pull-Push, and Accept).

Server

**NNTP newsgroup accessibility**
NNTP newsgroups are accessible to all Notes 4.6.2 clients.

Server

**NNTP newsgroup databases and the database catalog**
By default, NNTP newsgroup databases are not included in the database catalog. To include a newsgroup in the Database Catalog, open the Database Properties box, select the "Design" tab, and check the box labeled "List in Database Catalog."

Server

**NNTP server console commands**
The following console commands are supported by a Domino NNTP Server:

> Load NNTP
Start the NNTP server task.

> Tell NNTP Quit
Stop the NNTP server task.

> Tell NNTP newgroup group_name
Create a new NNTP newsgroup database on your NNTP server. Lotus recommends this command for creating private newsgroups and all newsgroups that are not created automatically during newsfeeds.

> Tell NNTP show groups
Print the NNTP newsgroup names and corresponding database pathnames.

> Tell NNTP show config
Print the current value of the NNTP server configuration variables.

Server

**NNTP server statistics**
The NNTP server keeps statistics on the amount of data transferred, which can be viewed using the server console command `sh stats`. 
Server

**Posting an article to a moderated USENET newsgroup**

To post an article or reply to a moderated USENET newsgroup, email your article or reply to the following address:

```
group_name@moderators.uu.net
```

where `group_name` is the name of the newsgroup.

Server

**Preventing remote NNTP servers from pulling news from your server**

You can prevent all remote NNTP servers from pulling new articles from your server by setting the `NNTP_Prohibit_NEWNEWS_Command=1` variable in NOTES.INI. If this variable is set, any NNTP server or client using the NEWNEWS command receives the error message "**502 access restriction or permission denied**."

Server

**Resetting an NNTP newsfeed**

To reset an NNTP newsfeed while the server is running, type the following at the server console:

```
> set config NNTP_Previous_X_servername=
```

where `X` is 0 for Pull feeds or 1 for Push feeds and `servername` is the fully qualified host name or IP address (depending on which you used in the corresponding Connection record Destination field for this feed) of the remote NNTP server for the feed. Note that the equal sign (=) is required and nothing should follow the equal sign. For Pull-Push feeds, you need to enter two separate lines, one for the Push and one for the Pull.

If the Domino server is not running, you can remove the line or lines in NOTES.INI that begin with the text "NNTP_Previous" and which correspond to the feed that you want to reset. The line has the format:

```
NNTP_Previous_X_ServerName = yymmdd hhmmss GMT
```

where `X` is 0 for Pull feeds or 1 for Push feeds, `ServerName` is the name of the remote NNTP server for the feed, and "yymmdd hhmmss GMT" is the time and date of the previous newsfeed to or from this remote server. For Pull-Push feeds, two separate entries appear, one for the Pull feed and one for the Push feed.

For example, to reset the NNTP newsfeed that pushes articles from your server to serverA.foo.com, remove the following line from NOTES.INI:

```
NNTP_Previous_1_serverA.foo.com = 971001 131953 GMT
```

When you reset an NNTP newsfeed, the next scheduled feed acts as the "initial" feed. To configure the initial feed, see the release note topic entitled **Configuring an Initial Newsfeed** in this section.
Server

**Specifying an NNTP administrator**

You must specify an NNTP Administrator in the NNTP Server section of your server's Server document in the Public Address Book. The NNTP administrator is specified as the database Manager in the ACL of all newsgroups that are created by your server.

Server

**Storing replies to articles that do not exist on your server (Notes client / Web browser only)**

If you receive an article during a newsfeed that is a reply to an article that has not yet been received by your server, your server automatically creates a "parent" document for the article. This "parent" document is only visible to Notes clients and Web browsers. The body of the parent document contains the text: "The selected message is not available."

Server

**Using the remote hostname instead of the remote host IP address for logging and status**

By default, the NNTP server uses the IP address of a connecting NNTP client or server for logging and reporting status. Using the IP address improves performance by avoiding the need to translate the IP address to a host name.

If you choose to display remote host names instead of IP addresses, set the NOTES.INI variable `itask_print_hostname=1`.

Server

**Enhanced Convert utility options**

Lotus has enhanced the Mail Convert utility and improved its performance. You can now convert categories to folders for files based on a mail 4.x template (that is, MAIL4.NTF), and enable and disable folder referencing for IMAP use. These are descriptions of the additional options:

- **-c**
  Converting categories to folders, even if a database has a V4 template design. If a database contains more than 200 categories and upgrading requires using the -i option, re-run the Convert utility and supply both the -c and -i options.

- **-m**
  Enables folder referencing for mail files accessed from IMAP clients. To access a Notes mail file with an IMAP client, run the Convert utility with this option.

- **-m-**
  Disables folder referencing for mail files accessed from IMAP clients. After disabling folder referencing for a mail file, you cannot access it from an IMAP client. To access the file again, re-run Convert with the -m option.

Server

**Setting up a virtual server**

The topic "Hosting Multiple Sites on One Server" in the printed version of *Extending the Domino System* includes an incorrect step. Do not select enabled in the "Bind to host name" field. For the most up-to-date information, see the Release 4.6.2 (or later 4.6.x release) online Administration Help (Helpadm.nsf).
Application Developer's Guide

Designer

**Automatically creating a random filename for a database**

The following information is missing from the Details section of the "Creating a database" topics in the Application Developer's Guide.

If you specify a file name for a database and start the name with a character that cannot be the first character of a database’s file name (such as ., ?, \, or /), Notes automatically generates a random file name in the format NSxxxxx.NSF, where x is a random number (for example, NS341902.NSF). SPR # MALX34CMBE.

Designer

**Correction to column icons**

This correction is for Chapter 5, "Designing Views," in the Application Developer's Guide.

In the topic called “Table of column icons,” the values shown are incorrect. The following diagram displays the correct values:
Corrected Chapter 03
The following is a correction to Chapter 3 ("Designing Forms") of the Application Developer's Guide:

- The color attribute for horizontal rules is supported by Microsoft Internet Explorer, but not supported by Netscape.

Corrected Chapter 10
The following are corrections to Chapter 10 ("Developing Applications for the Web") of the Application Developer's Guide:

- A form with a hidden or nonexistent embedded navigator cannot be opened from a Web client. An error page, Can't find design note, is displayed instead. SPR# MJAS3JJJX.
- Sections or embedded views with categories should not be used in custom response pages. SPR# MJAS3K919V.
- Embedded views and folder panes always appear on the left margin of the page and on a new line. SPR# MJAS3HNR2Y.

Corrected Chapter 11
The following are corrections to Chapter 11, "Including Java Applets in Application," of the Application Developer's Guide:

In the topic "Hiding an Applet Under Certain Conditions", the following paragraph was deleted:

To handle differences, use Hide-When formulas with the @useragent function to display one applet when users view the application through Internet Explorer and another when users view it through Netscape.

These paragraphs were added:

To handle browser differences, use a Computed for Display field that uses the CGI variable HTTP_User_Agent to return information on the browser type. For example, a computed for display field named "HTTP_USER_AGENT" gets filled in with a string that provides information about the browser. The string might look like the following:

Mozilla/3.0Gold (WinNT; I)
Mozilla/2.0 (compatible; MSIE 3.02; Update a; Windows 95)

From this information, you can determine the type and version for the browser. You can then write a Hide-When formula to hide an applet from a particular browser -- for example, use @Contains(HTTP_USER_AGENT; "MSIE") to hide an applet from Internet Explorer.

It is not necessary to create two applets if you want to use both a CAB file and a ZIP file for an applet. You can insert both the CAB file and the ZIP file with the applet. Domino creates the appropriate parts of the APPLET tag for both of the files. Netscape ignores the CABBASE parameter and Internet Explorer ignores the ARCHIVE attribute.

In the topic "Importing an applet from your file system," the following changes were made:
Importing an applet from your file system

An applet is a large collection of files. When the files are on your local file system, Notes provides tools for finding and importing the applet files. Before you insert a Java applet into a form or document, you must select "Enable Java Applets" in the User Preferences box.

1. Open a form in design mode or click in the rich text field of a document.
2. Select Create - Java Applet.
3. Select "Import an applet from the filing system."
4. Enter the path for the applet files in the Base Directory field. Enter the name of the main class for the applet in the Class Name field. To avoid typing the path and class name, click the folder icon to browse for the main class file for the applet. Clicking the main class name inserts the class and the path in the correct fields.

If you are inserting an applet that is packaged as a .jar file, you can enter the path and the main class name as described above. Note that browsing for the .jar file inserts the filename with a .class extension in the Class Name field. In some cases the filename and the main class name are the same, in other cases they are different and you must edit what appears in the Class Name field to be the correct main class name.

5. Click Locate to see all related files for the applet.
6. Select any additional applet files. Use the Add, Add All, Clear, and Clear All buttons to add or remove applet files. If you are inserting an applet that is packaged as a .jar file, select the .jar file, and click Add to include the .jar file in the Selected files list.
7. Click OK twice.
8. (Optional) Set applet parameters and properties using the design pane and the Properties box.

Details

If you have more than one applet on a form or document, Notes stores just one copy of common files. Files can be of the following types:

- Class -- *.class
- Archive -- *.jar, *.zip, *.cab
- Source -- *.java

In most cases you must select all applet class and resource files. Include the source files if you plan to send the applet to another user, who can export the source files and edit the applet.
Designer

**Corrections to table: About running restricted LotusScript agents**

The table in the "About running restricted LotusScript agents" section has the following corrections. This section is in Chapter 7 of the *Application Developer's Guide*.

- The first row, "Opening network databases", should be deleted.
- In the third row, "Creating or deleting databases", the following methods should be deleted in the second column:
  
  - Notes database New method
  - Notes database Create method
  - Notes database CreateFromTemplate method
  - Notes database CreateReplica method
  - Notes database CreateCopy method
  - Notes database Remove method

Designer

**New properties for OLE 2 objects and custom controls in forms**

There are new properties available for embedded OLE 2 objects and custom controls that you put into forms. The properties are available on the Information tab of the InfoBox for the object or custom control.

To access the properties:

1. Open the form for editing.
2. Click on the object or custom control.
3. Choose Edit - Properties or Applet - Object Properties to display the InfoBox.

**How these properties affect documents created with these forms**

The information below describes how objects and custom controls act in documents that users create with these forms.

**Properties available for OLE 2 objects**

- Size object to Window
  
  When the object is launched, it expands to fill the entire Notes window. If the document contains information other than the object, users cannot see that information while the object is expanded.

- Update object from document
  
  A user can make changes to the object and save those changes with the document. The object in the form no longer updates the object in the document.

**Properties available for custom controls**

- Size object to Window
  
  When a user creates a document or opens an existing document in edit mode, the custom control automatically expands to fill the entire Notes window. If the document contains information other than the custom control, the user cannot see that information while the custom control is expanded.

- Size object below field
  
  When a user creates a document or opens an existing document in edit mode, the custom control automatically expands to fill the area of the Notes window below the layout region.
If the document does not contain a layout region, the custom control expands to fill the entire Notes window.

If the document contains information below the layout region, the user cannot see that information while the custom control is expanded.

If the document contains two or more layout regions, the custom control expands below the first layout region. The user cannot see the other layout regions.

- Run object when reading document

  When a user opens a document, the object automatically launches in read mode. In this mode, the user can make changes to the object but cannot save the changes. The document has to be in edit mode to save the changes. The user can print the changes, however.

- Update object from document

  A user can make changes to the custom control and save those changes with the document. The custom control in the form no longer updates the custom control in the document.

Designer

**Opening forms with the ReadForm URL command**

This additional URL command is relevant to Chapter 10, “About URL commands for opening forms, navigators, and agents” in the *Application Developer’s Guide*.

**ReadForm**

Use the ReadForm command to display a form without creating a new document. ReadForm is useful for displaying a form as a simple Web page.

**Syntax**

- `http://Host/Database/FormName?ReadForm`
- `http://Host/Database/FormUniversalID?ReadForm`
- `http://Host/Database/FormNoteID?ReadForm`
- `http://Host/Database/$defaultform?ReadForm`

**Examples**


Designer

**Pasting a button into a layout region**

Although you can create a button on a layout region and attach a formula to the button, you cannot paste a button and its associated formula into a layout region. To workaround this, copy the formula from the button you want to paste, create a new button in the layout region, and paste the formula into the formula field for the new button.
Getting Started with the Domino Server

Server
CertificateExpChecked
The description of the NOTES.INI setting CertificateExpChecked in Appendix A of the printed version of Getting Started with the Domino Server is incorrect. This setting shows the date that a Notes ID was last checked for certificates that have expired or are about to expire and does not show the expiration date for an ID.

The correct information is provided in online Administration Help (HELPADMIN.NSF).

Server
Change to the Authenticating Web users with a client certificate or user name and password
The following information about authenticating client certificate and name and password users was omitted from Chapter 6 of Getting Started with the Domino Server, in the topic "About validation and authentication for Internet and intranet users."

When Web users with an SSL client certificate or user name and password authenticate with a Domino server, Domino attempts to match the user name with any of the entries listed in the "User name" field in the user's Person document in the Public Address Book. If the user name is located, the first entry listed in this field is used when verifying the user in database access control lists. For example, if the user tries to authenticate with a server using the name msmith and the User name field contains the following entries:

- Mimi
- Maryann Smith
- msmith
- jake

authentication is successful and Notes uses Mimi to verify the user in database access control lists.

You can also set up Notes to use the common name listed in the client certificate or the name provided by the user at the name and password prompt to verify the user in database access control lists. For example, if the user tries to authenticate with a server using the name msmith and the User name field contains the following entries:

- Mimi
- Maryann Smith
- msmith
- jake

You can force Notes to use msmith when verifying the user in database access control lists.

To do so, add the following setting to the Notes.ini file:

```
WebNameAuthentic=1
```

This is the method that previous releases of Notes and Domino used when authenticating users.
Server

Clarification of SMTPMTA_SPACE_REPL_CHAR .INI variable

If you have set the value of SMTPMTA_SPACE_REPL_CHAR to period (".") in your NOTES.INI file then period (".") is used as the space replacement character. Otherwise the space replacement character is set to underscore (even if you set it to another value). You set this value either be editing NOTES.INI to include the line, SMTPMTA_SPACE_REPL_CHAR=. or by typing the following at the server console:

    set configuration SMTPMTA_SPACE_REPL_CHAR=.

For more information about .INI files, refer to Appendix A NOTES.INI Settings in Getting Started with Domino. SPR# MJTR3AZN5V

Server

Issuing client certificates supported by the Certificate Authority Application

The printed version of Getting Started with the Domino Server does not include the latest information about client certificates, which the Certificate Authority Application can now generate in Release 4.6.1. For the most up-to-date information, see online Administration Help (Helpadmin.nsf).

Server

Selecting IMAP when registering new users

If you select IMAP for the Mail type when registering a new user, the user's mail file is created in such a way that the user can immediately access the file from an IMAP client. You do not need to run the Convert utility with the "-m" option on the mail files for any user registered using this method.

This information is omitted from the topic "About enabling a mail file for IMAP access" in the printed version of Chapter 2 of Getting Started with the Domino Server but is included in the online version of Administration Help (HELPADMN.NSF).

Client, Server

Sending a memo to users to update their ECLs

In Chapter 6 of Getting Started with Domino, Step 2 in the topic, "Sending a memo to users to update their ECLs" is incorrect. It should be:

Add a button to the memo that executes this formula:

    @RefreshECL( server : database ; name )

SPR # CBAN3H4S4D
Server

**Server command abbreviations**
The topic “About Domino server commands” and Appendix B: Server Commands in the printed version of *Getting Started with the Domino Server* includes incorrect abbreviations for several server commands. The correct abbreviations for these server commands are as follows:

<table>
<thead>
<tr>
<th>Server Command</th>
<th>Correct abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drop</td>
<td>Dr</td>
</tr>
<tr>
<td>Help</td>
<td>He</td>
</tr>
<tr>
<td>Pull</td>
<td>Pul</td>
</tr>
<tr>
<td>Show Configuration</td>
<td>Sh Co</td>
</tr>
</tbody>
</table>

For the most up-to-date information, see the Release 4.6.1 online Administration Help (helpadmn.nsf).

Server

**Server configuration documents**
The topic “Creating a Server Configuration document” in Chapter 7 of *Getting Started with the Domino Server* incorrectly states that you can enter an asterisk (*) in the Server name field of a Server Configuration document to specify all servers in a Domino domain. To specify a configuration for all servers in a Domino domain, you must instead create a Domain Configuration document by choosing Create - Server - Domain Configuration in the Public Address Book.

Server

**Set Statistics command**
In the printed version of Appendix B in *Getting Started with the Domino Server*, the second example for the Set Statistics command is incorrect. This command does not support wildcards. This information has been updated in the online version of Administration Help (HELPADMN.NSF).

Server

**Setting up SSL and X.509 Certificates on a Domino server**
Setting up Secure Sockets Layer (SSL) on a Domino server requires the administration of SSL key rings and X.509 certificates. Two application templates are provided with Domino 4.6.2 for this purpose:

- **Server Certificate Administration (csrv461.ntf)** - This application is used by a server administrator to set up server key rings, and to manage the process of requesting certificates, and installing signed certificates into key rings. This application is required on any Domino server that you set up to use SSL.

- **Certificate Authority (cca461.ntf)** - This application enables you to set up a Certificate Authority for signing certificates and registering client certificates in the Public Address Book. This application is required only on the server that is set up as a Certificate Authority. Organizations typically require just one such server.
See the *Getting Started With Domino* documentation provided with Domino 4.6.1 for detailed descriptions on how to set up and use these applications. This release note provides late breaking information and tips not covered in the documentation.

**Upgrading to Domino 4.6.2 from earlier releases**

Domino 4.5 provided support for certificate management in a single application called SSL Administration (ssladmin.nsf). The SSL Administration application is now obsolete in Domino 4.6.2.

After running the setup procedure for Domino 4.6.2, the Server Certificate Administration application is automatically created from the csrv461.ntf template, and the old ssladmin.nsf database is automatically renamed to ssladmin.old. Since the SSL Administration application does not contain any data required by the new certificate administration applications, you can delete ssladmin.old if you wish.

**Note:** Key rings and certificates created with the SSL Administration application are all still valid in Domino 4.6.2.

**Cheat sheet for setting up a Certificate Authority on a server**

Setting up a Certificate Authority on a server requires setting up both the Certificate Authority application and the Server Certificate Administration application on that server. The Server Certificate Administration application is required to create and manage a key ring for running SSL on the server. The Certificate Authority application is required for creating the CA key ring used for signing certificates, and for managing the Certificate Authority processes.

Online Administration Help (helpadmn.nsf) describes the setup process in detail. A brief overview is provided here for people who are familiar with SSL and certificate concepts and want to get started quickly. You might want to review the “Tips and Summary Information” section below before using the applications.

Begin with the Certificate Authority application, and create the CA key ring.

- Create a Certificate Authority database using the Certificate Authority template (cca461.ntf).

- In the ACL, give yourself the CAPrivilegedUser role before continuing.

  **Note:** Be sure to exit from the database and reopen it after assigning yourself this role. This step ensures that you are authenticated in the database as having access to this role. If you do not perform this step, attempting any of the steps listed below generates a series of three error messages.

- Open the Certificate Authority application. It opens up to the main "Certificate Authority Configuration" navigator.

- Choose "Create Certificate Authority Key Ring & Certificate". Fill in the form and submit it to create the CA key ring.

  **Note:** Choose the CA name and other information carefully. Once you create and use the CA key ring it can be a costly process to re-issue certificates if you need to change the CA key ring and certificate.

- In the main "Certificate Authority Configuration" navigator, choose "Configure Certificate Authority Profile". The CA Key File is already filled in with the file name of the CA key ring you created. Fill in the "Certificate Server DNS Name" field with the DNS name of the server.
- In the main "Certificate Authority Configuration" navigator, choose "Create Server Key Ring & Certificate. Fill in the form and submit it to create the server key ring and accept the CA as an authority in the server key ring.

**Note:** Before this server keyring can be used, you must exit and restart the HTTP server task. At the server console enter: tell http quit to stop the HTTP server task from running on the server. Enter "load http" to restart the http task and the new keyfile.kyr is recognized.

You have created the CA key ring for signing certificate requests, and the server key ring for running this server with SSL. The final steps for going on-line with the CA application are:

- Go to the "Internet Port and Security Configuration" section in the server record in the Public Address Book to specify the name of the server key ring, and to configure the HTTP protocol to use SSL. See the Tips below for details on how to set up the SSL parameters.

**Note:** When making any changes to this area of the server document, the protocol must be exited and restarted for the changes to take affect. For example, if the SSL port for HTTP (443) was disabled and you made a change to Enable it, then at the server console you should enter "tell http quit." When exited, enter "load http" to restart the HTTP server.

- Publish the URL of the Web site to the users who are accessing the application using a Web browser.

### Tips and summary information

The table below provides summary information and tips for setting up and using the Certificate Authority and Server Certificate Administration applications.

<table>
<thead>
<tr>
<th>Certificate Authority Application</th>
<th>Server Certificate Administration Application</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Audience</strong></td>
<td></td>
</tr>
<tr>
<td>There are two audiences for the</td>
<td>The audience for the Server Certificate</td>
</tr>
<tr>
<td>Certificate Authority application:</td>
<td>Administration application is the server</td>
</tr>
<tr>
<td>**Certificate Authority</td>
<td>administrator responsible for setting up</td>
</tr>
<tr>
<td>administrators:**</td>
<td>SSL on a Domino server. The application</td>
</tr>
<tr>
<td>Certificate Authority administrators access this application using the Notes client. The Notes client interface to this application allows CA administrators to set up a CA key ring, and process certificate requests. The CA must also set up this application to be available from the Web so that public users can access it from a Web browser.</td>
<td>is accessed using the Notes client.</td>
</tr>
<tr>
<td><strong>Public users:</strong></td>
<td></td>
</tr>
<tr>
<td>Public users access this application using a Web browser. The Web interface to this application provides the functions for submitting certificate requests, picking up signed certificates, registering client certificates, and accepting this CA as an authority in a server or browser.</td>
<td></td>
</tr>
</tbody>
</table>
| **Creating the Application** | Create a new database using the Certificate Authority (cca461.ntf) template.  
**Note:** In the "New Database" dialog, select the "Show advanced templates" checkbox in order to see this template in the list. | When you install and set up Domino 4.6.1, the Server Certificate Administration application is automatically created from the csrv461.ntf template during the setup process. |
| **Opening the Application** | The database can be opened from the workspace, or by choosing it from the System Databases popup list in the Server Administration panel.  
**Note:** If you open the database from the Server Administration panel, it may not open up to the main menu navigator. If this is the case, choose the "Main Menu" action button. | The database can be opened from the workspace, or by choosing it from the System Databases popup list in the Server Administration panel.  
**Note:** If you open the database from the Server Administration panel, it may not open up to the main menu navigator. If this is the case, choose the "Main Menu" action button. |
| **Run from Server**  
**(with Notes client)** | You can administer the CA application from the server on which it is installed, although this is not the recommended approach. It's more secure to run from the CA application from a workstation and keep the CA key ring on the workstation. (See "Run from Workstation" below.)  
**Note:** Domino automatically generates a pickup URL in the notification e-mail sent to users who submit certificate requests. In order for the DNS portion of the URL to be generated correctly, the Certificate Authority application should be in the Notes data directory, or in a subdirectory under the data directory. If the Certificate Authority database is in some other directory, then it is recommended that you open the database using the specific server name rather than "local". (This means that whether you are adding the database icon to your workspace, or going through the System Databases popup in the Server Administration panel, specify the server by name rather than as "local".) | You can administer the Server Certificate Admin application from the server on which it is installed, or you can administer it from a separate workstation.  
**Note:** It's mostly a matter of convenience for the administrator.  
Which ever approach is taken, the server key ring must ultimately reside on the server in order for SSL to be set up on that server. |
### Run from Workstation
**Note:** Running the CA application or the Server Certificate Administration application from a workstation requires the dmsecadm.dll file in the Notes directory. This is provided automatically when you install the "Notes Designer for Domino" client, or when you choose Custom install and choose the "Notes Designer Toolbox" option.

Running from workstation, and keeping the CA key ring on the workstation machine is the recommended approach for CA key ring security.

If there are multiple people acting as CAs working from their own workstations, each workstation requires a copy of the CA key ring. Note: When copying the CA key ring file, the main .kry file is needed, but not the "stash" file with the .sth extension.

**Note:** Do not confuse the CA key ring with the server key ring. Even though you must have the CA key ring on the workstation you're running from, the server key ring must be on the server. (See Server Certificate Administration Application column to the right for how to set this up).

If you create the server key ring by running the Server Certificate Administration application from a separate workstation, you must copy the key ring files to the server.

There are two key ring files that must be copied over to the server: (1) the main key ring file with the .kry extension, and (2) the "stash" file with the .sth extension (this file provides the password so that you don't have to manually enter it at server startup).

The method to use in copying the files to the server is up to you. The key ring files are password protected, but you should be aware of the risk of copying the files over a network.

**Note:** The location of the key ring file must be specified in the "SSL key file" setting in the "Internet Port and Security Configuration" section of the server record in the Public Address Book.

### Run from Web

The following groups of users access the CA application with a Web browser:

1. Server Administrators access the CA app for the following functions:
   - Request Server Certificate
   - Pick Up Certificate
   - Accept This Authority In Your Server

2. Browser users access the CA app for the following functions:
   - Request Client Certificate
   - Register Client Certificate
   - Accept This Authority In Your Browser
   - Pick up Client Certificate

See the "Internet Port and Security Configuration" section below for a description of the server settings required for these Web tasks.

You will, of course, need to make the URL for this application available to the users who should be able to access the site.

There's no Web access to this database.

Since no Web access is allowed, the "Maximum Internet name & password access" setting in the "Advanced" panel of the "Access Control" dialog should be set to "No Access".

If Max Access is not set, Web users launch to the About page, where there's a note explaining that a Notes client R4.6 or later is needed to run the app.
<table>
<thead>
<tr>
<th>&quot;Internet Port and Security Configuration&quot; in the Public Address Book</th>
<th>To support browser users who choose &quot;Register Client Certificate&quot;:</th>
</tr>
</thead>
<tbody>
<tr>
<td>This operation requires the browser to have a client certificate so that Domino can access it and store it in the Public Address Book.</td>
<td></td>
</tr>
<tr>
<td>In order for Domino to execute this task, SSL must be enabled, and the &quot;Client certificates&quot; setting in the &quot;Internet Port and Security Configuration&quot; section must be enabled for HTTP.</td>
<td></td>
</tr>
<tr>
<td>To support server administrators who choose any of the server certificate functions, and for browser users who choose the &quot;Accept This Authority In Your Browser&quot;:</td>
<td></td>
</tr>
<tr>
<td>These functions do not require SSL. However, SSL is recommended to protect data in transit.</td>
<td></td>
</tr>
<tr>
<td>The &quot;Client certificates&quot; authentication option is not required for these functions, but it will typically be enabled anyway in support of the &quot;Register Browser Certificate In Address Book&quot; function. Note: Users who don’t have a client certificate can still access the site for all the functions except &quot;Register Client Certificate&quot;, but they may get a message from the browser stating that a client certificate has been asked for.</td>
<td></td>
</tr>
<tr>
<td>The &quot;Name &amp; password&quot; and &quot;Allow anonymous&quot; settings are not required. It’s up to the CA server administration to determine whether to allow anonymous access or require a name &amp; password for users who don’t have a client certificate.</td>
<td></td>
</tr>
</tbody>
</table>

| Not applicable. |

<table>
<thead>
<tr>
<th>ACLs and Roles</th>
<th>ACL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>The level for &quot;Default&quot; should be set to &quot;Author&quot;. This is needed so that server administrators can submit certificate requests over the Web.</td>
<td></td>
</tr>
<tr>
<td>Users who are responsible for approving certificate requests and certificate registration requests must be assigned at least &quot;Editor&quot; access.</td>
<td></td>
</tr>
<tr>
<td>ACL:</td>
<td></td>
</tr>
<tr>
<td>Access to this database is up to the server administrator.</td>
<td></td>
</tr>
<tr>
<td>It is recommended that the level for &quot;Default&quot; should be set to &quot;No Access&quot; to protect the application from unauthorized use.</td>
<td></td>
</tr>
<tr>
<td>&quot;Editor&quot; access should be provided to users who will be creating key rings and certificate requests.</td>
<td></td>
</tr>
<tr>
<td>ACL:</td>
<td></td>
</tr>
<tr>
<td>[CAPrivilegedUser]: This role must be assigned to any users responsible for handling certificate requests.</td>
<td></td>
</tr>
</tbody>
</table>
Signing portions of the application

The Agents in the CA application need to be signed by someone who is in the "Run Restricted LotusScript Agents" field in the Agent Manager section of the Server record. This can be a server or a user. Not applicable.

Administration Process Setup

The "Register Client Certificate" and "Request Client Certificate" functions requires an Administration Server to be specified for this database. This setting is in the "Advanced" panel of the "Access Control" dialog. Not applicable.

Server

SSL cipher specification

You can specify which cipher specification that Domino uses when negotiating SSL connections. Also, Domino now supports Verisign Global Server IDs that negotiate a 128-bit encryption even if you have international licenses.

The printed version of Getting Started with the Domino Server does not include this information. For the most up-to-date information, see the Release 4.6.2 (or later release) online Administration Help (helpadmn.nsf).

Server

Updates to the Certificate Authority application

The Certificate Authority application was updated for 4.6.2 to include a streamlined setup procedure for the server. For the most up-to-date information, see online Administration Help (helpadmn.nsf).
Database Manager's Guide

Client

**Users with Author access**
"About database access levels for users" and "Details: Assigning an access level to a name in the access control list" specify that users with Author access can edit the documents that they create. Users can edit documents that they create only if the document includes an Authors name field that contains their name. If the server and user have hierarchical names that do not have an ancestor in common, the name in the Authors name field must be hierarchical. SPR # SVRO3DKT55

Server

**Corrected ACL setting**
In the advanced panel of the access control list (ACL), the correct setting is "Maximum Internet browser access." It is incorrectly documented as "Maximum Internet name & password access."

Install Guides

Client

**UNIX Install information**
- Pre-installation checklist:
  
  Ensure that non-interactive shells on all destination hosts do not yield any errors or extraneous text. For example, for remote hosts, `rsh host echo hello`, should return only "hello."
  
  For a local host, `echo "echo hello" | /usr/bin/sh` should return only "hello."

- About the Notes setup program:
  
  Running Notes as root is not supported. After installing, logout as root and run the Notes setup program as an appropriate user (as documented elsewhere).

- About the Notes setup program (glossary):
  
  The "Templates" option is not available in the Notes setup program. All appropriate templates are installed into your data directory based on the option selections made.

Server

**Domino server system requirements**
The system requirements for a Domino server listed in the *Lotus Domino 4.6 Install Guide* are incorrect. Please see the *System requirements for the Notes client and Domino Server* in the *Things You Need to Know* section of these Release Notes for updated system requirements.
Server

**Installing a Domino server for NetWare**

In the topic "Installing the Domino server for NetWare" in chapter 4 of the *Lotus Domino Install Guide for Servers*, step 10 should be changed to the following:

10. Enter a drive and directory on your local workstation where you want to install the Notes Administrative Client program files (for example, C:\NOTES). Next, enter a drive and directory on the NetWare server where you want to install the Domino NetWare server program and data files (for example, M:\NOTES). By default, the Install program selects your local drive for both locations (for example, C:\NOTES). Be sure to specify a drive that is mapped to a NetWare volume in which to install the Domino server files. Click Browse to choose from a list of available drives and directories.

Client, Server

**Installing from a NetWare or Intranetware file server**

When copying files to a NetWare or Intranetware server so users can install from the server, some files violate the 8.3 file naming restriction. To resolve this issue, add OS/2 Names Space support to the NetWare server if it's running NetWare 3.12 or 4.10. If it's running 4.11, load LONG Name Space and then add long_names to the volume. Examples below:

For Netware 3.12/4.10:

Load OS2.NAM
ADD NAME SPACE OS2 to Vol_Name

For Netware 4.11:

Load LONG.NAM
ADD NAME SPACE LONG_NAMES to Vol_Name

Server

**Installing the Lotus Domino server for NetWare**

In the topic "Installing the Domino server for NetWare" in Chapter 4 of the *Lotus Domino 4.6 Install Guide*, replace step 12 with the following information, which describes how to install Advanced Services for Domino:

12. If you chose Customize features - Manual install, do the following:

- Select the features on the Notes tab that you want to install. At minimum you must select the Lotus Domino Server and Personal Data Files options to run a Domino server.
- To install Domino Advanced Services, click the Advanced Services tab and select the Advanced Services and Advanced Services Data options. Click Yes if you have purchased the Lotus Domino Advanced Services license and agree to the terms. Otherwise, click No and deselect Advanced Services and Advanced Services Data.
- Choose any other features you wish to install.
- Click OK.
Client

**Installing the Notes workstation for Windows from CD-ROM**

In the topic "Installing the Notes workstation for Windows from CD-ROM" in the *Lotus Notes Install Guide for Workstations*, step four is incorrect. The step should read:

4. Type

```
    drive:\directory\install
```

where `drive` and `directory` specify the location of the Lotus Notes workstation for Windows Install program. On the CD-ROM, the directory is W32INTEL. Press ENTER.

Server

**Lotus Domino server for NetWare install options**

In the topic "About the Lotus Domino server for NetWare" in Chapter 4 of the *Lotus Domino 4.6 Install Guide*, the text should describe an additional install component on the Advanced Services tab:

- **Advanced Services Data** contains the data files necessary for clusters and billing. Select this option if you purchased the Lotus Domino Advanced Services license and want to install clusters and billing for your Domino NetWare server.

Server

**Lotus Domino server for Windows install options**

In the topic "About the Domino server Install program for Windows" in Chapter 2 of the *Lotus Domino 4.6 Install Guide*, the install component "Example Files" is no longer available.

Server

**NetWare support files**

In the Install Servers Guide, Chapter 4, page 75 for Release 4.6 (About installing Novell Netware support files). If you are using SPX on a Netware 3.12 server, you also need to install the most recently STRTL6.EXE support file from Novell to use Notes succesfully.

Client, Server

**Node installation and upgrade of Lotus Notes clients**

When upgrading a public copy of Lotus Notes and local nodes, delete the existing files from the program and data directories on the server. Install the new version of the software into the same program and data directories. Users can upgrade their local data files by installing over them.
Server

**Running Domino as an automatic Windows NT service**
The topic “Running Domino as an automatic Windows NT service” in the *Lotus Domino Install Guide for Servers* should be updated as follows:

4. Select Automatic as the startup type. Select either “System Account” or a user account.
   
   **Note:** If you select a user account, the Domino server console does not appear. To view the Domino server console remotely, choose File - Tools - Server Administration. Click the Console button. Select a server in the Remote Console dialog box. Select the Live Console option.

   Apart from the NT user right "Log on as a service," which is needed if Notes is to run as a service under a user account, the addition or omission of other user rights does not affect the functionality of Notes.

5. If you chose "System Account," you can select "Allow Service to Interact with Desktop."
   
   **Note:** If you do not select this setting, the Domino server console does not appear. To view the Domino server console remotely, choose File - Tools - Server Administration. Click the Console button. Select a server in the Remote Console dialog box. Select the Live Console option.

Server

**UNIX information in Lotus Domino Install Guide**
The UNIX chapter of some versions of the printed *Lotus Domino Install Guide* is incorrect. Correct versions list the book as a “Second revision” on the copyright page. If you have an *Install Guide* which is a first revision, see the chapter on Microsoft Windows or IBM OS/2 for instructions on how to set up a Domino server using the Server Setup Database (SETUP.NSF). The online *Install Guide*, SRVINST.NSF, is correct.

Client, Server

**Update to Lotus Web site information**
The URL for the Systems Management Web page is incorrect; it does not need to include a final forward slash (/) in the link.

The correct link is http://www.lotus.com/systems
Maintaining the Domino System

Server

About file statistics reports
The information provided in Chapter 3 of *Maintaining the Domino System* is not up to date. The Reporter server task generates a file statistics report at 3:00 AM after the server is first loaded and then again at subsequent analysis intervals.

The modified instructions are in online administration Help (helpadmn.nsf).

Server

Automatic restart of server upon error (UNIX platforms only)

Overview
The fault recovery system automates the job of information gathering from, cleaning up, and restarting the faulted server. Fault recovery lets a server cleanup from a number of different failures and then restart itself. By recovering the faulted server quickly, end users should not notice that the server has even been down. This minimizes server downtime and reduces Notes administration. Each fault is logged to a file. At the time of the fault, user-defined actions can be invoked through a user defined external script.

Invoking fault recovery
Set UNIX environment variable FaultRecovery to 1. This can be done at the command line where the server is started:

```
# setenv FaultRecovery 1
```

or in your .profile file:

```
export FaultRecovery 1
```

Faulted conditions handled
1. Fatal system signals: segv, bus, iot, fpe, emt, and ill.
2. Notes called panics or halts (2 conditions)
3. Any Notes internal call to OSStaticHang().

Faulted conditions not handled yet
Hangs that do not call OSStaticHang().

Brief summary on architecture
At server startup a System V message queue is created. From this point all pids, shared memory ids, and semaphores ids are put in the queue. Since the queue size is limited, as process exit their parents are signed, SIGCHLD, and their pids are removed from the message queue. If the Notes server enters one of the above faulted states OSFaultCleanup() is called. In OSFaultCleanup() the queue is emptied of the pids and shared resource ids. All the shared resources are put into a list for later disposal. All pids except for the faulted process are then signaled to exit. At this time, only the faulted process remains. The shared resources are removed. After all the cleanup is complete the faulted process exit will a status to signal the initiator startup, to restart the server.
Server Passwords
If the server's id file is password protected the server will encrypt the password and store it in a protected System V message queue. After the server faults, cleans up, and restarts the server will retrieve the password from the message queue.

User defined external script execution
The user can define an external script to be executed at the time the server faults. The script is defined in the notes.ini file:

```
CleanupScriptPath=/local3/notesserver/dbx_all
```

One example of a possible script that could be used is a dbx script which will get a stack traces of all Notes processes at time of the fault.

**Note:** The script must complete before the server can finish cleaning up. The faulted process will wait for the externally defined script to complete before it cleans up the server.

Sample script:
```
#!/bin/sh
DATE=`date +%m_%d@%H_%M`
SERVERNAME=`uname -n`
#
# Moving log database to archive. Time stamp it.
#
echo $DATE
if [ -f log.nsf ]
then
  echo "Moving Server's log file (log.nsf) to /
local/archive/log.nsf_$DATE"
  mv log.nsf /local/archive/log.nsf_$DATE
fi
#
# Mail notification of crash to administrator.
#
echo "Notes server: $SERVERNAME crash at $DATE" > notification_$DATE
mail notes_admin < notification_$DATE
mv notification_$DATE /local/archive/notification_$DATE
```

**Restrictions for the fault recovery system**
1. Restrictions for running the server and client on the same system.
2. The server must be started before the client. If the server faults while the client is running the server might not recovery properly. If the client faults while running on the same system as the server, the server may not recovery properly.
3. External scripts, for example, can increase the downtime of a faulted server.

**Server Clarification of Destination Server field**
The Destination Server field on the SMTP Server Connection document is used by the Domino router to determine the next appropriate hop. While it can be an arbitrary name, it is recommended that you enter a meaningful name. For example, for an Internet connection, if the Destination Domain field is "TheInternet," the Destination Server field could be "All Internet Hosts." For an intranet connection, if the Destination Domain field is "TheIntranet," the Destination server field could be "Local SMTP Hosts." SPR # RDAL3KJK2N
Server

Creating a trouble ticket for a reported alarm
The information provided in Chapter 3 of the printed version of *Maintaining the Domino Server* is not up to date. The modified instructions are in online administration Help (helpadmin.nsf).

Server

Generating Statistics Reports immediately
The following information is omitted from Chapter 3 of *Maintaining the Domino System* and from Administration Help (HELPADMN.NSF):

If you run the Reporter server task, you can use the following server console command to generate Statistics Reports immediately rather than waiting for the next reporting interval:

```
tell reporter report
```

Server

Monitoring server performance
The topic, Monitoring server performance, in Chapter 4 of "Maintaining the Domino Server" in *Maintaining the Domino System* is incorrect.

The statistics Transmissions.Retried and Errors.RetransmittedPackets are not generated when you type `SHOW STAT` at the server console. Only the statistic Server.Sessions.Dropped is generated.

SPR # MCA3J4DGV
Planning the Domino System

SMTP/MIME MTA failover scenario

About using one MTA for inbound messages and one MTA for outbound messages (with failover protection)

This scenario allows greater flexibility by providing both inbound and outbound failover protection and load balancing. By using two MTAs on different servers, you can configure your network so that normally one MTA handles inbound messages and one MTA handles outbound; however, either MTA can handle the load of the other if one should go down. Notes routing dynamically increases the routing cost to your primary server if there is a problem. The key to this configuration is that if both connections have the same routing cost and one server goes down, dynamic routing automatically increases the cost by 1, thus making the fallback server cheaper. Because the server has a lower routing cost, the outbound mail processes through the MTA on that server.

For this configuration to work correctly for inbound connections, you must set up the DNS properly. You can register your organization with an Internet service provider. Their DNS should be set up so that there is an Address (A) record for each server where an SMTP/MIME MTA resides. Minimally, there must be a Mail Exchange (MX) record with the A record for the server used primarily for inbound mail. If you want failover, then a second MX record must be created, with a higher preference value, to the A record for the second server. Inbound mail processes through the MTA on whichever server has the lower preference value in the MX record. If that server is unavailable or busy, then the mail is routed to the next server, thus giving you failover for inbound mail.

For Outbound failover to occur the Router delivering to the MTA server has to be unable to connect and deliver the message to MAIL.BOX. Outbound failover does not occur if the server is running but the MTA is not.

For inbound failover the connecting SMTP host has to be unable to establish contact with the MTA's inbound transport. Inbound failover does not occur if the Inbound Transport is running but Inbound conversion is not.

You must then configure the Public Address Book on each MTA server, to contain the minimum documents required to install an SMTP/MIME MTA. For the purpose of explaining this scenario, there is one Notes Domain. However, this scenario still applies if another Notes domain was added.
Example: Using one MTA for inbound messages and one MTA for outbound messages

Acme Company has a working SMTP connection and is registered with the Internet service provider as acme.com. It has one Domino domain called SEAFOOD. SEAFOOD contains several Domino servers (Lobster, Crayfish, and Shrimp). Lobster/SEAFOOD and Shrimp/SEAFOOD each contain an SMTP/MIME MTA.

Lobster/SEAFOOD is configured to send outbound mail to the Internet. This scenario could be configured for either a direct connection or to pass through a firewall. Shrimp/SEAFOOD is configured to receive inbound SMTP mail from the Internet. (Shrimp really isn't 'configured' for this task, it just so happens that outbound routing goes to Lobster and Inbound Routing goes to Shrimp. The actual MTAs are configured pretty much the same.)
**Public Address Book requirements**
For this scenario, you can generally use the field values in each document, except where specified.

- One Global Domain document. You may need to create a new document. You must enter information in the following fields: Domain type, Global Domain name, Global domain tasks, and the Internet domain suffix(es).

### DOMAIN: AcmeGlobal

<table>
<thead>
<tr>
<th>Basics</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domain type:</td>
<td>Notes domain:</td>
</tr>
<tr>
<td>Global Domain</td>
<td>Notes domains and aliases:</td>
</tr>
<tr>
<td>Global domain name:</td>
<td>Alias separator character:</td>
</tr>
<tr>
<td>Global domain role:</td>
<td></td>
</tr>
<tr>
<td>SMTP MTA</td>
<td></td>
</tr>
</tbody>
</table>

#### Basics
- Domain type: Global Domain
- Global domain name: AcmeGlobal
- Global domain role: SMTP MTA

#### SMTP Address Conversion
- Outbound mail restriction: Unrestricted
- Address format: Address only
- Internet domain suffix: acme.com, lobster.com, shrimp.com
- Internet address lookup: Disabled
- Local part formed from: Full name
- Notes domain(s) included: All
- Notes domain(s) position: Left of '@'
- Notes domain separator: % - percent sign
- Address example: JMD%dom1%dom2%dom3@acme.com

#### X.400 Address Conversion
- Outbound mail restriction: Restrict to global domain
- Country name: 
- ADMD name: 
- PRMD name: 
- Notes domain attribute: None
- One Foreign SMTP Domain document routing to the Internet. All SMTP mail that is addressed to the Internet domain *.* automatically routes to the virtual domain name, TheInternet.

**DOMAIN: *.***

<table>
<thead>
<tr>
<th>Basics</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domain type:</td>
<td>Allow mail only from</td>
</tr>
<tr>
<td>Foreign SMTP Domain</td>
<td>domains:</td>
</tr>
<tr>
<td></td>
<td>Deny mail from domains:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Messages Addressed to:</th>
<th>Should be Routed to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet Domain:</td>
<td>TheInternet</td>
</tr>
<tr>
<td><em>.</em></td>
<td>or,</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Internet host:</th>
</tr>
</thead>
</table>

- Two Server Connection documents.

  **Note:** Both Connection documents should have the same cost. Because both servers are in the same Notes Named Network, outbound mail will be processed by the MTA on the server that is named first alphabetically.

- One Server Connection document for outbound server: You might need to create a new document. You must enter information in the Connection Type. The Source server fields must reflect the name of the server on which the MTA resides (Lobster/Seafood). The Destination domain must match the domain entered in the foreign domain document (TheInternet). This field should not be the same name chosen for the Source server. You can give a virtual name for the Destination server (All Internet Hosts). To indicate the firewall or relay to be used, you must also indicate the Optional network address name or the IP address of that system.

- One Server Connection document for the inbound server. You need to create a new document. You must enter information in the Connection Type. The Source server fields must reflect the name of the server on which the MTA resides (Shrimp/Seafood). The Destination domain must match the domain entered in the foreign domain document (TheInternet). This field should not be the same name chosen for the Source server. You can give a virtual name for the Destination server (All Internet Hosts).
Two Server documents.

- One Server document for the SMTP/MIME MTA handling mail outbound to the Internet. You must edit the server document for server Lobster/SEAFOOD. You must enter information in the Routing tasks, and the Global domain name. The Fully qualified Internet host name represents your full Internet address for this server.

- One Server document for the SMTP/MIME MTA handling mail inbound from the Internet. You must edit the server document for the server Shrimp/SEAFOOD. You must enter information in the Routing tasks, and the Global domain name. The Fully qualified Internet host name represents your full Internet address for this server.
### SERVER: Lobster

#### Basics
- **Server name:** Lobster
- **Server title:**
- **Domain name:** Seafood

#### Internet Message Transfer Agent (SMTP MTA)

**General**
- **Global domain name:** AcmeGlobal
- **Fully qualified Internet host name:** lobster.acme.com

**Control**
- **Poll for new messages every:** 120 seconds
- **MTA work path:** \c:\Notes\smtpwork
- **Log level:** Normal
- **Enable daily housekeeping:** Enable
- **Perform daily housekeeping at:** 01:00 AM

### SERVER: Lobster

#### Basics
- **Server name:** Shrimp
- **Server title:**
- **Domain name:** Seafood

#### Internet Message Transfer Agent (SMTP MTA)

**General**
- **Global domain name:** AcmeGlobal
- **Fully qualified Internet host name:** shrimp.acme.com

**Control**
- **Poll for new messages every:** 120 seconds
- **MTA work path:** \c:\Notes\smtpwork
- **Log level:** Normal
- **Enable daily housekeeping:** Enable
- **Perform daily housekeeping at:** 01:00 AM
Server

Update to Lotus Web site information
The URL for the Systems Management Web page is incorrect; it does not need to include a final forward slash (/) in the link.

The correct link is http://www.lotus.com/systems

Designer, Server

Domino.Action no longer available
The topic “Using Domino.Action to create a Web site” in Planning the Domino System and Domino Administration Help is no longer correct. Beginning with Release 4.6.1, Lotus no longer includes the Domino.Action templates with the Notes and Domino product.

Help

Designer

Application Developer's Guide updates
The following changed in the 4.6.1 Application Developer's Guide section of Full Help.

New topics

1. New topic on "What's new for developers in Release 4.6"
   Chapter: 00
   Topic: What's new for developers in Release 4.6
   Description: Added a summary of new features for developers with links to the topics.

2. New topic on "Use JavaScript" database property
   Chapter: 10 Developing Applications for the Web
   Topic: About setting "Use JavaScript when generating pages"
   Description: There are extensive ramifications for Web apps and formulas.

Updates and corrections

1. Update for viewing the database design
   Chapter: 1 Touring an Application
   Topic: Viewing the database design
   Description: Removed mention of no shared fields or script libraries in the template design.

2. Column icons picture - SPR #TAR3MX34K and WEBB3M4K8W
   Chapter: 5 Designing Views
   Topic: Table of column icons
   Description: Fixed picture.
3. Update - restricted LotusScript agents
Chapter: 7 Adding Automation to Applications
Topic: About running restricted LotusScript agents
Description: Corrected table.

4. SPR # MJAS3NJRKH
Chapter: 10 Developing Applications for the Web
Topic: "About Web databases."
Description: Added note about not naming design elements with non-ASCII characters if you want them to show up on the Web.

5. Update for Web attachments
Chapter: 10 Developing Applications for the Web
Topic: Creating an attachments field for Web documents.
Description: In order to use the file upload control from the web you must have a temp directory defined on the server.

6. Update for embedded Web elements - SPR #MJAS3KJXXJ and SPR MJAS3HRN2Y
Chapter: 10 Developing Applications for the Web
Topic: Embedding a view, folder pane, or navigator
Description: Documented limitations with embedded Web elements.

7. SPR # CAA3M7HG
Chapter: 10 Developing Applications for the Web
Topic: Displaying the view navigation bar for embedded views
Description: Corrected command syntax for ViewPageUp, ViewPageDown.

8. Update to Web agents
Chapter: 10 Developing Applications for the Web
Topic: About Web agents
Description: Removed incorrect second paragraph and replaced with information from 4.6 Best Practices Guide.

9. Update - SPR # JCHN3BKKEV
Chapter: 10 Developing Applications for the Web
Topic: About running agents before Web users open or save documents.
Description: Added note about the problem with computed fields and WebQueryOpen agents.

10. Update - SPR #MJON3PKPYU
Chapter: 10 Developing Applications for the Web
Topic: About customizing Web error messages
Description: Added information about field formulas in error messages.

11. Update for @DbLookup and @DbColumn - SPR #RGET3PVJ28
Chapter: 10 Developing Applications for the Web
Topic: About using @functions in Web applications
Description: Don't use server name in @Dblookup and @DbColumn formulas.

12. Update for ACL
Chapter: 10 Developing Applications for the Web
Topic: Setting up the access control list for a Web database.
Description: Database ACL can be changed from the Web with Web Administration Tool.
13. Update for hiding an applet - SPR #MJON3M7N67  
Chapter: 11 Including Java Applets in Applications  
Topic: Hiding an applet under certain conditions  
Description: Added more information about browser differences

14. Update for importing an applet - SPR #PCHE3PTKX8  
Chapter: 11 Including Java Applets in Applications  
Topic: Importing an applet from your file system  
Description: Included more information about specifying a path in the Base Directory field.

Context-sensitive help - GuideMe fixes

1. SPR # PCHE3JVPVB and ICAO3KHT4G  
Help - GuideMe fix for Problems with Java agents/Java applets help for dialogs.

2. SPR #LDEY3P6LDH  
GuideMe fix -- for form properties Guideme book  
Fixed broken jump in first bullet to jump to H_ABOUT_NAMING_RENAMING_AND_CREATING_SYNONYMS_FOR_FORM_NAMES.

Miscellaneous

1. Customer request for extra step  
Chapter: 1 Touring an Application  
Topic: Creating a database  
Description: Added "Click OK to create the database."

2. Fixed typo in index entry (adding horizontal lines)  
Chapter: 3 Designing Forms  
Topic: Adding a horizontal line to a form  
Description: Changed index entry to: adding horizontal lines.

3. Fixed typo - SPR #DMAS3MUJWD  
Chapter: 3 Designing Forms  
Topic: About full text searches and forms  
Description: Reversed words ampersand and at sign after symbols.

4. Fixed typo  
Chapter: 7 Adding Automation to Applications  
Topic: About security features that affect automation formulas  
Description: Added missing word "that" to title.

5. Fixed typo  
Chapter: 8 Restricting Access To and Securing Parts of an Application  
Topic: Examples: Creating a field that generates a list of encryption keys  
Description: Fixed incorrectly displayed quote marks in first paragraph.

6. Customer Request for index entry  
Chapter: 10 Developing Applications for the Web  
Topic: Adding computed text to a document or form  
Description: Added an index entry "Computed text."
7. Fixed typo
Chapter: 10 Developing Applications for the Web
Topic: Treating documents as pure HTML
Description: Fixed typo: “Treat document contents as HTML.”

8. New index entries for HTML header information
Chapter: 10 Developing Applications for the Web
Topic: Adding HTML Header information
Description: Added index entries for Cookies and JavaScript.

9. Fixed typo
Chapter: Appendix D: Features to Avoid Using in Web applications
Topic: Table of Notes field properties that are not supported on the Web
Description: Fixed typo to read "Web users cannot read data in encrypted fields."

Server
Changes to online Administration Help
The following changes have been made to online Administration Help (Helpadmnn.nsf):

- Added new search limit information when setting up search criteria on a Web server.
- Added new information about issuing client certificates using the Certificate Authority application.
- Updated information about cipher specifications when negotiating SSL handshakes. Domino now supports 128-bit encryption when communicating with international license users.

Client, Designer
Editing a document containing an Authors field
In the topic "Editing a document," the following note was updated:

Note: You can edit your own documents in a database if you have at least Author access to the database and you are listed in the Authors field. You can edit other documents in a database if you have at least Editor access to the database.

Client, Designer, Server
Tips and troubleshooting for Java applets
When you send mail on the Internet, it can lose some of its formatting. Java applets embedded in Notes mail files might not be visible to the mail recipient for this reason. Notes provides a mechanism for getting around this problem that involves selecting Actions-Special Options and clicking the "I am sending this Notes document to other Notes Mail user(s) through the Internet" check box. See the "Ways to send a message through the Internet" and the "Sending a message through the Internet" sections in the Notes Help database for further information.

Client, Server
"About This Database" document now includes revision history
You can see which release of Notes is described in the Help database by choosing Help - About This Database and reading the Revision History section.
"Using This Database" document now includes section describing what's in Help
A new section in "Using This Database" called "Getting the most out of Notes online help and documentation databases" explains what's covered in Help versus Help Lite. This section also shows how the printed documentation contains almost the same material as the online help, in a different organization.

The information is repeated in a document under "Use Help" in the "How Do I?" view, for users who might not open the Using This Database document.

Personal Web Navigator online help

Client

Updates to online help
The following help topics should be updated, as follows:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forwarding a URL (Personal Web Navigator)</td>
<td>The correct name for the option in step 3 is &quot;Forward bookmark to page.&quot;</td>
</tr>
<tr>
<td>Forwarding Web pages (Personal Web Navigator)</td>
<td>The correct name for the option in step 3 is &quot;Forward copy of page.&quot;</td>
</tr>
<tr>
<td>Importing bookmarks from other browsers (Personal Web Navigator)</td>
<td>The correct name for the &quot;Favorites&quot; folder is &quot;Favorites and Bookmarks.&quot;</td>
</tr>
<tr>
<td>Saving selected pages while browsing (Personal Web Navigator)</td>
<td>The correct name for the button in step 3 is &quot;Add Bookmark.&quot; Also, the following step is missing: 4. Select &quot;Copy of page for offline use&quot; and click OK.</td>
</tr>
</tbody>
</table>
Programmer's Guide

Designer

RegisterNewCertifier method (LotusScript)
The correct syntax for the RegisterNewCertifier method is as follows:

RegisterNewCertifier method

 Registers a new certifier ID file.

Defined in
NotesRegistration class

Syntax

Call notesRegistration.RegisterNewCertifier( organization$, idfile$, certpw [, country]] )

Parameters

organization$
String. The organization to which the new certifier ID belongs.

idfile$
String. The ID file to be registered. Specify the full path; for example, c:\notes\data\cert.id.

certpw
String. The password for the certifier ID file.

country
String. The contents of the country field in the Name and Address book record.

Designer

RegisterNewServer method (LotusScript)
The correct syntax for the RegisterNewUser method in LotusScript is as follows:

Note: In the LotusScript Browser (programmers pane), servpw is not optional. In the Notes Programmer's Guide, the servername is missing, certpw is missing, and servpw is not optional.

The correct syntax follows:

RegisterNewServer method

 Registers a new server ID file.

Defined in
NotesRegistration class

Syntax

Call notesRegistration.RegisterNewServer( servername$, idfile$, domain$, servpw [, certpw [, location [, comment [, network [, adminname [, title]]]]]] )
Parameters

servername$  
String. The server name.

idfile$  
String. The ID file to be registered. Specify the complete path; for example, c:\notes\data\cert.id.

domain$  
String. The domain to which the server belongs.

servpw  
String. The password for the server ID file.

certpw  
String. The password for the cert ID file.

location  
String. The contents of the location field in the address book record.

comment  
String. The contents of the comment field in the address book record.

network  
String. The Notes named network (NNN) on which the server runs.

adminname  
String. The full name of the server administrator.

title  
String. The contents of the title field in the address book record.

SPR # JCDS3LJLEU

Designer

RegisterNewUser method (LotusScript)
The correct syntax for the RegisterNewUser method in LotusScript is as follows:

RegisterNewUser method

Registers a new server ID file.

Defined in

NotesRegistration class

Syntax

Call notesRegistration.RegisterNewUser( lastname$, idfile$, mailserver$, [ , firstname [ , middleinit [ , certpw [ , location [ , comment [ , mailpath [ , fwddomain [ , userpw ]]]]]]] )

Parameters

lastname$  
String. The last name of the user to be registered

idfile$  
String. The ID file to be registered. Specify the complete path; for example, c:\notes\data\cert.id.
mailserver$
   String. The name of the server containing the user's mail file.
firstname
   String. The user's first name.
middleninit
   String. The user's middle intital.
certpw
   String. The password for the certifier ID file.
location
   String. The contents of the location field in the address book record.
comment
   String. The contents of the comment field in the address book record.
mailpath
   String. The path of the user's mail file relative to the mail directory; for example, mail\jones.nsf.
fwddomain
   String. The forwarding domain for the user's mail file.
userpw
   String. The user's password.

SPR # JCDS3LEMM6.

Designer

**Save method and runtime exception (LotusScript)**
Because modifying an agent causes it to be re-signed, the NotesAgent (LotusScript) and Agent (Java) class's Save method raises a runtime exception if it is run from a background agent running on a server.

Designer

**AddServerToAddressbook method (LotusScript)**
The correct syntax for the `AddServerToAddressbook` method in the *Notes Programmer's Guide* is as follows.

**Note:** userpw should be serverpw.

**AddServerToAddressbook method**

Adds a server to the address book.

**Defined in**

NotesRegistration class

**Syntax**

Call `notesRegistration.AddServerToAddressbook( idfile$, servername$, domain$ [, serverpw
[ , network [, adminname [, title [, .location [, comment]]]]]]))`
Parameters

idfile
String. The ID file for the server to be added to the address book. Specify the full path; for example, c:\notes\data\cert.id.

servername
String. The name of the server to be added to the address book.

domain
String. The domain of the server to be added to the Name and Address.book.

serverpw
String. The server's password for the specified ID file.

network
String. The notes named network (NNN) on which the server runs.

adminname
String. The full name of the administrator of the server.

title
String. The contents of the title field of the Name and Address book record.

location
String. The contents of the location field of the Name and Address book record.

comment
String. The contents of the comment field of the Name and Address book record.

Designer

NotesAgent class: RunOnServer method
Lotus Script:  integer Agent.RunOnServer()

The RunOnServer() method runs the agent on the remote server which host the agent's parent database. This differs from the Agent.Run() method that runs the agent locally.

For the RunOnServer() method to work, the database must be on a remote server. Use the Run() method to run agents on local databases.

The method takes no parameters, and returns an Integer indicating the completion status.

Example in Lotus Script:

Sub Initialize

    Dim session As New NotesSession
    Dim agent As NotesAgent
    Dim status As Integer

    On Error Goto ErrorHandler

    ‘Remember, database must reside on a Remote Server for RunOnServer to work
Set db=session.CurrentDatabase

Set agent = db.getAgent("testprint")

' Run the Agent Locally
Call agent.Run()

' Run the Agent On the Server
status = agent.Runonserver()

Print "status = ", status

Exit Sub

ErrorHandler:

    Print "Error: ", Error, Err
    Resume Next

End Sub

Designer

@Commands with ECL security
The @Command [AddToFolder] is incorrectly listed in the topic @Commands with ECL security. This should be the @Command [Folder], not [AddToFolder].

Designer

@Functions with ECL security
The @Function @Certificate is not affected by the execute control list, and is incorrectly listed in the topic @Functions with ECL security.
LotusScript Language Reference

Client, Designer

Stack space
The following information is added to the “Storage size of data” section at the end of Appendix A in the LotusScript Language Reference:

LotusScript might generate an Out of stack space error before it reaches the data storage size limit. The local data size limit is actually a less than 32K (or under 64K for classes and modules) because of run-time needs.

Designer

Changes to Evaluate Function and Statement
Notes 4.6.2 lets LotusScript agents evaluate variable Notes formulas. The Evaluate statement no longer requires formula text to be a constant. Formal text might now be any string expression or string variable.

New sections of the Evaluate function and statement are underlined.

Evaluate function and statement
Execute a Lotus product macro.

Syntax
Evaluate ( macro [ , object ] )

Elements
macro
A string expression specifying the text of a Lotus product macro, in the syntax that the product recognizes. Refer to the Lotus product documentation for the correct syntax of the macro.

If the macro text is in a constant or string literal, the Lotus product will need to do only initial processing of the macro once, at compile time, while variable strings incur that processing each time the macro is evaluated.

object
Optional. The name of a product object. Refer to the product documentation to determine if the macro requires an object, and what the object is.

Return value
If the Lotus product macro being executed returns a value, the Evaluate function returns a Variant containing that value. Otherwise, the function does not return a value.
Java Programmer's Guide

Designer

registerNewCertifier method

The correct syntax for the registerNewCertifier method in the *Java Programmer's Guide* is as follows:

```
public boolean registerNewCertifier(String org, String idfile, String certpw)
    throws NotesException
public boolean registerNewCertifier(String org, String idfile, String certpw, String country, )
    throws NotesException
```

**Parameters**

- **String org**
  - The organization to which the new certifier ID belongs.

- **String idfile**
  - The ID file to be registered. Specify the full path, for example, c:\notes\data\cert.id.

- **String certpw**
  - The password for the certifier ID file.

- **String country**
  - Optional. The contents of the country field in the Name and Address book record.

**Return value**

- **boolean**
  - True if the operation is successful; false otherwise.

Designer

registerNewServer method

The correct registerNewServer method as it should appear in the Java Programmer's Guide is as follows.

**Note:** In the Java Programmer's guide, the following args were not marked as optional: certpw, location, comment, network, adminname, title.

```
Register a new server ID file.

Defined in
lotus.notes.Registration class

Syntax

public boolean registerNewServer(String serverid, String location, String comment, String title, String network, String adminname, String certpw)
    throws NotesException
```

Designer

registerNewServer method

Registers a new server ID file.

Defined in
lotus.notes.Registration class

Syntax
public boolean registerNewServer(String server, String idfile, String domain, String pw)
    throws NotesException
public boolean registerNewServer(String server, String idfile, String domain, String serverpw, String certpw, String location, String comment, String network, String adminname, String title)
    throws NotesException

**Parameters**

String server

The server name attached to the ID file.

String idfile

The ID file to be registered. Specify the complete path, for example, c:\notes\data\cert.id.

String domain

The domain to which the server belongs.

String pw

The password for the server ID file.

String serverpw

The password for the server ID file.

String certpw

Optional. The password for the certifier ID file.

String location

Optional. The contents of the location field in the address book record.

String comment

Optional. The contents of the comment field in the address book record.

String network

Optional. The Notes named network (NNN) on which the server runs.

String adminname

Optional. The full name of the server administrator.

String title

Optional. The contents of the title field in the address book record.

**Return value**

boolean

True if the operation is successful; false otherwise.

SPR #JCDS3LJLEU
registerNewUser method

The correct syntax for the registerNewUser method in the Java Programmer's Guide is as follows.

Note: The Java Programmer's guide is missing the string userpw argument and several descriptions which should be listed as optional.

registerNewUser method

Registers a new server ID file.

Defined in

lotus.notes.Registration class

Syntax

public boolean registerNewUser(String lastn, String idfile, String server)
   throws NotesException

public boolean registerNewUser(String lastn, String idfile, String server, String firstn, String middle, String certpw, String location, String comment, String maildbpath, String forward, String userpw)
   throws NotesException

Parameters

String lastn
   The last name of the user to be registered.

String idfile
   The ID file to be registered. Specify the complete path; for example, c:\notes\data\cert.id.

String server
   The name of the server containing the user's mail file.

String firstn
   Optional. The user's first name.

String middle
   Optional. The user's middle intital.

String certpw
   Optional. The password for the certifier ID file.

String location
   Optional. The contents of the location field in the address book record.

String comment
   Optional. The contents of the comment field in the address book record.

String maildbpath
   Optional. The path of the user's mail file relative to the mail directory; for example, mail\jones.nsf.

String forward
   Optional. The forwarding domain for the user's mail file.

String userpw
   Optional. The user's password.

Return value

boolean
   True if the operation is successful; false otherwise.
Designer, Server

**save method and runtime exception**

Because modifying an agent causes it to be re-signed, the NotesAgent (LotusScript) and Agent (Java) class's Save method raises a runtime exception if it is run from a background agent running on a server.

**Designer**

**addServerToAddressbook method**

The correct syntax for the `addServerToAddressbook` method in the Java Programmer's Guide is as follows.

**Note:** In the Java Programmer's guide, `userpw` should be `serverpw`. Also, several parameters should be listed as optional.

**addServerToAddressbook method**

Adds a server to the address book.

**Defined in**

NotesRegistration class

**Syntax**

```java
public boolean addServerToAddressBook(String idfile, String server, String domain) throws NotesException
double boolean addServerToAddressBook(String idfile, String server, String domain,
String serverpw, String network, String adminname, String title, String location,
String comment) throws NotesException
```

**Parameters**

- **String idfile**
  - The ID file for the server to be added to the address book. Specify the full path; for example, `c:\notes\data\cert.id`.

- **String server**
  - The name of the server to be added to the address book.

- **String domain**
  - The domain of the server to be added to the Name and Address book.

- **String serverpw**
  - Optional. The server's password for the specified ID file.

- **String network**
  - Optional. The notes named network (NNN) on which the server runs.

- **String adminname**
  - Optional. The full name of the administrator of the server.

- **String title**
  - Optional. The contents of the title field of the Name and Address book record.

- **String location**
  - Optional. The contents of the location field of the Name and Address book record.
String comment
  Optional. The contents of the comment field of the Name and Address book record.

Return value
boolean
  True if the operation is successful; false otherwise.

Designer
getUserInfo method
The correct name for this method is getUserInfo and not getUserInfoFromServer.

Designer
lotus.notes.Agent class: runOnServer method
int Agent.runOnServer()

The RunOnServer() method runs the agent on the remote server that hosts the agent's parent database. This differs from the Agent.Run() method that runs the agent locally.

For the RunOnServer() method to work, the database must be on a remote server. Use the Run() method to run agents on local databases.

The method takes no parameters, and returns an Integer indicating the completion status.

Code snippet:

Agent agent = db.getAgent("testprint");
System.out.println("Running agent on Server");
int status = agent.runOnServer();
System.out.println("Agent returned with the following status: "+ status);

LotusScript Browser

Designer
Errors in the LotusScript browser (Programmer's pane)
The following errors appear in the online help associated with the LotusScript browser (Programmer's pane):

- For the RegisterNewServer method, servpw is not optional.
- Isserverid should be boolean in GetIDFromServer: GetIDFromServer(string username, string idfile, bool isserverid)
- Isserverid should be boolean in DeleteIDOnServer: DeleteIDOnServer(string username, bool isserverid)
Migration Guide

Server

Novell NetWare Release 4.11
Chapter 1 of the Migration Guide includes information about using Novell NetWare Release 4.11 with a Domino server. The information in this chapter is incorrect. Novell NetWare Release 4.11 is not certified for use on Domino servers.

For information on certified server platforms, see the Certifications and Requirements section in the Things you need to know view.

Best Practices: Templates and Sample Databases

Designer

Update Thread Maps Agent
The Update Thread Maps agent is removed from DISCSW46.NTF. All references to this in Best Practices: Templates and Sample Databases should be disregarded. To improve the Thread Map functionality in the Discussion template (discsw46.ntf), the Update Thread Maps agent has been replaced by a Computed for Display text field. The computed text field builds the correct html to provide the same functionality as the Thread Map Agent. It is contained in the subform named "Thread" and only displays to web browsers using a computed Subform on the Main Topic form.

SMTP/MIME MTA Dial-up Feature

Server

SMTP/MIME MTA dial-up feature for Windows NT
There is a dial-up feature implemented in Domino SMTP/MIME MTA for Microsoft Windows NT only. This feature allows an organization to use a single dial-up Internet connection to send and receive Internet mail for their entire company. This is particularly important for small to medium-size businesses that must regularly communicate using email, but find that a dedicated Internet connection is cost prohibitive.

Dial-up features a mode that leverages the new ETRN command. The ETRN command stands for Extended Turn, and is an SMTP Service Extension specified by RFC 1985. The ETRN dial-up mode provides a mechanism for the SMTP client host to notify the ISP's SMTP server host that it is ready to accept remotely queued mail for one or more Internet domains.

For more information about this feature's implementation, see the Lotus Support technical document "Domino 4.6.1 SMTP/MIME MTA Dial-Up Feature" (#159499) on the Lotus Support Web Site knowledge base at the following addresses:

http://www.lotus.com/support
http://orionweb.lotus.com/basic.html
Chapter 5 - Interoperability

Client, Server

**Template interoperability**
This table lists those templates that can be installed in Domino and Notes 4.6.3. The last column indicates if the template can be used by 4.5 clients in a mixed environment. Although not updated since 4.6.3, it is believed this information is still accurate for the current QMR release.

<table>
<thead>
<tr>
<th>Template Title</th>
<th>Template Filename</th>
<th>4.5 Client support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration Requests (R4.5)</td>
<td>ADMIN4.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Agent Log</td>
<td>ALOG4.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Approval Cycle (R4)</td>
<td>APPROVE4.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Billing</td>
<td>BILLING.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Local free time info</td>
<td>BUSYTIME.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Database Catalog</td>
<td>CATALOG.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Certificate Authority</td>
<td>CCA461.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Certification Log</td>
<td>CERTLOG.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Certificate Administration</td>
<td>CSRV461.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Cluster Directory (R4)</td>
<td>CLDBDIR4.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Cluster Analysis</td>
<td>CLUSTA4.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Statistics Collector Config</td>
<td>COLLECT4.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Database Analysis</td>
<td>DBA4.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Database Library</td>
<td>DBLIB4.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>DECS Administrator Template</td>
<td>DECSADM.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Discussion - Notes &amp; Web (R4.6)</td>
<td>DISCSW46.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Microsoft Document Library (R4.6)</td>
<td>DOCLBM46.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Doc Library - Notes &amp; Web (R4.6)</td>
<td>DOCLBW46.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Document Library (R4)</td>
<td>DOCLIB4.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Lotus SmartSuite 96 Library (R4)</td>
<td>DOCLIBL4.NTF</td>
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<tr>
<td>Domino Web Server Configuration</td>
<td>DOMCFG.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Domino Web Server Log</td>
<td>DOMLOG.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Statistics and Events</td>
<td>EVENTS4.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Frameset (R4.6)</td>
<td>FRAMEW46.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Personal Journal (R4)</td>
<td>JOURNAL4.NTF</td>
<td>Yes</td>
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<tr>
<td>Notes Log</td>
<td>LOG.NTF</td>
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<tr>
<td>Notes Log Analysis</td>
<td>LOGA4.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Master Address Book</td>
<td>MAB45.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Mail (R4.6)</td>
<td>MAIL46.NTF</td>
<td>No</td>
</tr>
</tbody>
</table>
Client, Server

**Domino Server 4.6.2 interoperability with Domino/Notes 4.1.x and 4.5.x**

The following table provides information to help you with your integration of Domino 4.6.2 servers with Domino and Notes 4.1.x and 4.5.x. These updates were used during interoperability testing and are not listed directly in the Domino and Notes 4.6.2 configurations. These updates are required for 4.1.x/4.5x systems when accessing Domino 4.6.2 servers and required for Domino 4.1.x/4.5x servers when Notes 4.6.2 clients are accessing them.

While this information has not been fully revised since R4.6.2, it is believed accurate for the current R4.6 QMR release of Notes and Domino.

**OS platforms:**

OS/2 Warp connect: FixPak #27

Macintosh: System 7.5x, 7.6x, or MacOS 8

**Protocols:**

AppleTalk: Windows NT 4.0 requires service pack #3

<table>
<thead>
<tr>
<th>Feature</th>
<th>Setting</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mail Router Mailbox</td>
<td>MAILBOX.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Mail - Combined (R4.6)</td>
<td>MAILC46.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Mail - Web Only (R4.6)</td>
<td>MAILW46.NTF</td>
<td>N/A - for web use only</td>
</tr>
<tr>
<td>NNTP Discussion (R4.6)</td>
<td>NNTPDI46.NTF</td>
<td>No</td>
</tr>
<tr>
<td>NNTP Cross-Post</td>
<td>NNTPPOST.NTF</td>
<td>No</td>
</tr>
<tr>
<td>New User Passwords</td>
<td>NTSYNC45.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Web Pages (R4.6)</td>
<td>PAGESW46.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Personal Address Book</td>
<td>PERNAMES.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Personal Web Navigator (R4.6)</td>
<td>PERWEB46.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Favorites</td>
<td>PRTFLO46.NTF</td>
<td>No</td>
</tr>
<tr>
<td>Public Address Book</td>
<td>PUBNAMES.NTF</td>
<td>Yes (except for Domain Config form for specifying LDAP access)</td>
</tr>
<tr>
<td>Server Web Navigator 4.5</td>
<td>PUBWEB45.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Resource Reservations (4.5)</td>
<td>RESRC45.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>SMTPBOX Template</td>
<td>SMTPBOX.NTF</td>
<td>Yes</td>
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<td>SMTPMTA Work Queue Template</td>
<td>SMTPWQ.NTF</td>
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</tr>
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<td>Search Site</td>
<td>SRCHSITE.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Statistics Reporting</td>
<td>STATRP45.NTF</td>
<td>Yes</td>
</tr>
<tr>
<td>Web Administration</td>
<td>WEBADMIN.NTF</td>
<td>N/A - for web use only</td>
</tr>
</tbody>
</table>
IPX/SPX:

<table>
<thead>
<tr>
<th>Operating Systems</th>
<th>Support</th>
<th>Novell Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOS/Windows 3.1x</td>
<td>Novell NetWare client16 1.21 [ODI/VLM]</td>
<td>VLM121_x.EXE (x=1~6)</td>
</tr>
<tr>
<td>DOS/Windows 3.1x</td>
<td>InterNetWare client for DOS/Windows 3.x 2.12</td>
<td>DWENU_N3</td>
</tr>
</tbody>
</table>
| OS/2              | NetWare Client for OS/2 2.12 | CLOS2N.EXE & OS2IT3.EXE *

Many of the file names above end with the letter "N" (for example, DWENU_N3.EXE). This indicates the network installation version. The diskette version of the same patch ends with the letter "D" (for example, DWENU_D3.EXE). Both the network version and the diskette version of these patches are supported.

In addition Windows 3.1x NetWare services require the following updates to Windows 3.1x: WINDR3.EXE & NWDL2.EXE

* OS/2 systems require this patch OS2IT3.EXE located at Novell's FTP site ftp://ftp.novell.com/pub/netwire/nsd/os2it3.exe. This patch supplies the newer SPX.SYS dated 3/4/97. You must use it or the newer SPX.SYS file. Failure can cause the OS/2 kernel to crash when more than 30 (approximately) concurrent sessions are active.

TCP/IP:

This table summarizes the 16-bit TCP/IP stacks that are 1) certified & supported 2) not certified and supported 3) not certified or supported. The 16-bit stacks only support Notes clients that have DOS/Windows 3.1 systems.

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Vendor Name</th>
<th>Certified &amp; Supported</th>
<th>Not Certified &amp; Supported</th>
<th>Not Certified &amp; Not Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>BW-Connect 3.2/4.0</td>
<td>Beam &amp; Whiteside Now Hummingbird</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Chameleon 4.6</td>
<td>NetManage</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>DEC PATHWORKS IP for DOS and Windows 5.1</td>
<td>Digital Equipment</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Distinct TCP/IP for M/soft 3.30</td>
<td>Distinct Corporation</td>
<td></td>
<td>X</td>
<td></td>
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<tr>
<td>IBM TCP/IP for DOS 2.11A</td>
<td>IBM</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>LAN WorkPlace for DOS 5.0</td>
<td>Novell</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>OnNet for Windows 2.0 &amp; 2.1</td>
<td>FTP Software</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Pathway Runtime.</td>
<td>Wollongong Group Attachmate</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Super TCP Suite 2.2</td>
<td>Frontier Technologies</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>TCP Connection for Windows 5.1</td>
<td>Walker, Richer and Quinn (WRQ)</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Windows for Workgroups 3.11</td>
<td>Microsoft Corporation</td>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
Client, Designer

**Notes Designer client feature interoperability**

Most of the new Notes Designer client features in Notes 4.6.2 and later are not supported in previous versions of Notes. Databases that contain these features can still be used in an environment containing Notes 4.5 clients; however, horizontal rules and embedded views, folders, and navigators and computed text are not rendered when encountered in documents and forms using a Notes 4.5 client.

You should be aware of the following caveats related to Notes client version interoperability:

- Anchor links do not function as a DocLink when activated using a Notes 4.5 client.
- Circular hotspots: When you open a database that contains a circular hotspot using a Notes 4.5 client, you receive the message, **Navigator contains one or more unrecognized objects to appear.**
- Background bitmap support - Forms & Documents: Notes 4.5 clients support rendering of background bitmaps on forms and documents; however, Notes 4.5 clients cannot remove or replace document background graphics as in the Notes 4.6.1 client.
- New action bar bitmaps: Action bar buttons that use new action bar bitmaps are rendered in a Notes 4.5 client, but the bitmaps are not rendered.

Hide When Viewed from Notes/Web and Hide When Design Elements: Notes 4.5 clients do not support these properties.

**Caution:** All data/design elements on which this property is applied WILL NOT BE HIDDEN when opened using a Notes 4.5 client.

- @ClientType: If you are designing a database to be used within a mixed client environment, you should precede @ClientType by the statement: `@if(@TextToNumber(@Version) < 147; ""; @ClientType........). The message, **Invalid Formula: Unknown Function/Operator**, appears if this statement is not used and the form is opened by a Notes 4.5 client.
- `@command([ToolsRunMacro];"AgentName"): When used in a Domino 4.5 environment, the message, **Error 500: HTTP Web Server: Lotus notes Exception. Invalid formula: Unknown function/Operator**, is returned.
- Initial Page support - auto launch from web options: Initial page support using "Open About Database document" as the launch option is supported in Domino 4.5. Other options generate the message, **Error 500: HTTP Web Server: Lotus Notes Exception. Invalid Formula: Unknown function/Operator**, when the database is served up using Domino 4.5.
Chapter 6 - History of changes

Client, Designer, Server

History of Notes and Domino fixes and enhancements
A comprehensive list of all fixes performed and announced via the Release Notes can be found in the online Release Notes database that ships with each release of the Lotus Notes and Lotus Domino core product. Previous features and enhancements for Notes and Domino (such as Releases 4.6, 4.6.1, 4.6.2, 4.6.3 and 4.5.7) are available in the History of Changes chapter. All features and enhancements listed in that chapter for 4.5.x and 4.6.x releases are also included in the current Notes and Domino 4.6.x Release.

Official Fix Lists of SPR fixes and enhancements for the Notes and Domino core product are also available at the Notes.net Web site. (These Notes.net Fix Lists are segregated by product, however, rather than comprehensively presented in one location like the fixes reported in the on-line Release Notes database. The Fix Lists are available on the various Incremental Installer pages in the Notes.net web site "Download" area).

In addition to shipping with the core product, online Release Notes databases containing all the comprehensive Fix Fists for a release are available for download or live Web browser viewing at Notes.net. The Documentation site at Notes.net is:

www.notes.net/doc

Client, Designer, Server

SPR Tracking view in the online Release Notes
A new SPR Tracking view has been added to the online Release Notes (in Notes Database format) beginning with Notes and Domino Release 4.6.2. This view displays a Lotus SPR (Software Problem Report) number, plus a basic description, for any issue where the Release Notes writers determine a topic in the Release Notes relates to an SPR. This is presented in a view, sorted by SPR number, of all Release Notes that have SPR numbers associated with them.

The sole purpose of this view is to provide another means for finding background information on issues as they are summarized within the Release Notes only. When a customer is aware an SPR has been associated with an issue being experienced, this view may be useful for finding supporting information that may exist somewhere within the Release Notes. The simple presence of an SPR in this view of the Release Notes does not imply a 'fix' or development action is imminent, nor does the absence of an SPR in this view imply an issue is 'resolved' or 'no longer under consideration' by Lotus.

The Lotus documentation group recommends that for exhaustive online searches, the Notes Database formatted Release Notes Search view should be used, or the Release Notes database should be full-text indexed and searched.

This view is also available in the Internet browsable version of the Release Notes posted at:

www.notes.net/doc
Notes and Domino Release 4.5.3
The Release 4.5.3 new enhancements included in the 4.6.x releases are as follows:

API
- SPR# SGAU3HSFNP - Fix a memory leak that occurred when a process spawned by a Notes API was shut down.
- SPR# MCHT3FAA4M - Fix the handling of subforms when Store Form in Document is used in the API routine, CompoundTextAddRenderedNote.
- SPR# JASH3AHUEE - Fix a crash in REGNewWorkstation when specifying NULL for the user's first name.
- SPR# JHAM3D5QF3 - Fix a crash in NSFItemGetModifiedTimeby BLOCKID when the Notehandle is NULL.
- SPR# JHAM3DQPT6 - Fix a crash in OSCurrentTimeZone when either one of the arguments was NULL.
- SPR# RBER3HGJPT - Improve the performance of NSFNoteComputeWithForm and CompoundTextAddRenderedNote by caching the design collection.
- SPR# DANO3HSR6P - Fix a problem with MAPI where attachments were lost when forwarding a mail message which originated outside of Notes.
- SPR# DANO3J7STV - Fix a problem in MAPI which caused the loss of the original header and message text in forwarded messages and in replies.
- SPR# DANO3KFHTL - Fix a problem in MAPI in which the From field is blank in messages which are moved from a Notes store to a different mail system store.
- SPR# POVY3K7MBX - Prevent an erroneous OLE Automation error when using OLE automation to access Notes documents through the various methods on a NotesView.
- SPR# LADS2Y6NZ5 - Prevent a crash when calling OSDarrayRemoveElement several times.
- SPR# BLON3LKPA4 - Prevent the error, E_ACCESS_DENIED 80070005, when accessing the folders collection in a mail database using MAPI.
- SPR# DANO3LQP22 - Provide basic mail functionality (read, delete, send, reply, forward) for Microsoft Outlook through MAPI.
- SPR# VROZ3L7KUT - Fix a problem with NSFComputeWithForm not updating fields in subforms correctly. This problem manifested itself in the LotusScript method ComputeWithForm on a NotesDocument.
- SPR# DANO3LRUA - Prevent the error, MAPI_E_NOT_FOUND, from being returned from when sending a message using MAPI. The problem was that all necessary properties were not being returned by a call to MESSAGE::GetProps with a NULL property array.
- SPR# DANO3LXJ9E - Correctly save the message body in a MAPI application when a message is created and saved, but not sent, and when the body starts with a space.
Templates:

Public Address Book

- SPR# FBRR3CMPGU - Allow forms in the Public Address Book template to be edited instead of receiving the error Field is too large (15K) or View's column & selection formulas are too large.
- SPR# BCOR3FDUGW - Allow the use of spaces in directory names in the "Files/Directories to replicate" field in a Server Connection document.

Mailfile

- SPR# CBRN3FAL77 - Allow the creation of greater than seven repeating meetings when they repeat Monthly by day for every month on the last given weekday, like on the last Friday.
- SPR# GZYN3FHBWH - Fix a problem where dragging and dropping a repeating calendar entry to change the time caused the repeating meetings to have the wrong time.
- SPR# BLEE3JFCDS - Give the user the "Change Repeating" choice dialog every time a repeating C&S entry is moved.
- SPR# GRN3HPLGV - Correctly set the alarm time on repeating C&S events when the user changes it from the default.
- SPR# APAI3FHKZE - Correct a problem when repeating C&S events are moved by dragging and dropping them to a different day and the choice to change all entries is selected.
- SPR# RJAN3JUPMN - Fix the display of a resource response to a repeating C&S entry in the view to not show, "ResourceName can attend."
- SPR# PVAI3JLMVK - Make it possible to use Actions->Other -> Propose alternate time /date in C&S when in the local yet connected mode of mail.
- SPR# PVAI3JLLN8 - Prevent obscure LotusScript errors when attempting to perform certain C&S functions which require server resources when working in the local yet connected mode of mail.
- SPR# APAI3EHU4Q - Fix a problem with the C&S Repeat rules in that the Repeating Information showed one time less than requested.
- SPR# ERIA3E2UCS - Fix a problem with C&S Repeat rules when the repeat time is the 31st of the month.
- SPR# MGRT3EMRCA - Correctly observe the Calendar Profile setting, Autoprocess Meeting only from the following people, when the specified person is in a different mail domain.
- SPR# MTHD3JER6Q - Fix the Out of the Office Agent so that mail is not sent for Return Receipts.
- SPR# DWIN3ECSXD - Fix a problem with too many instances of a multi-day/week repeating meeting being created.
- SPR# CLIR3G3KTV - Fix a problem with an existing calendar entry being updated incorrectly when the date and time were deleted and the document saved.
- SPR# PMOL3AZVF2 - Enlarge the font used to display the Forwarding banner to make it more readable on the Macintosh.
- SPR# KGRY3E6NHQ - Put Notes mail memos which are converted to tasks correctly in the To Do section of Organizer.
- SPR# DCZI3HV7LV - Fix problems with changing the date in a repeating appointment and selecting "All previous" or "All future" incidences.
- SPR# APAI3FLPSW - Leave a C&S entry in a user's calendar after s/he changes it from an invitation to an anniversary or an event after sending a cancellation notice to the invitees.
- SPR# APAI3JFSWA - Prevent the LotusScript error, `Variant does not contain an object`, when the chair views the invitee responses and two users have delegated to the same person.
- SPR# JSAE3KPNQR - Prevent an unrecoverable LotusScript error, `Variant does not contain a container (post recalc)`, when attempting to find a resource for a meeting inadvertently scheduled in the past.
- SPR # JSMH3J8HHD - Prevent the deletion of the time for a calendar entry which has a time range.
- SPR# BLEE3LRCJ2 - Prevent receiving the LotusScript error, `Overflow (CopyChanges)`, when dragging and dropping a repeating meeting to a new time in the two-day view.

**Discussion**
- SPR# PMOL3GDKHS - Fix display problems in databases created from the Discussion template on the Macintosh.
- SPR# SSHE3JMJF8 - Fix the InitializeThreadIDs agent in the Discussion database template to not have a default server name of Catherine Duffy/NAHQ/Lotus when scheduled to run.

**Personal Web Navigator**
- SPR# KSOA3KH3SW - Fix the Page Minder and Web Ahead agents in the Personal Web Navigator so that they work with authenticated pages.

**Resource Reservations**
- SPR# SBED3AXNTX - Display resource reservations for repeating meetings immediately in the Resources database views.
- SPR # SCHD3H9LG4 - If a user reserves a room or other resource by adding it to the invitee list for an invitation, return an error, `Please use the reservation section of the Calendar Entry to reserve rooms and resources`, instead of the resource declining the invitation.
- SPR# TKEY3GSKX5 - Correctly send multiple acceptances for a resource for a repeating meeting in order to support Organizer.
- SPR# SBED3BDQUP - Fix problems with changing resource reservations for repeating meetings.

**LotusScript**
- SPR# BLUU3K9L3M - Prevent the saving of orphaned LotusScript agents in a database each time an agent is edited which caused the database to report the error, `Insufficient memory -- too many design elements (Desk Design Pool)`, and disallowed opening of the database.
- SPR # KSMH3K4L9W - Fix the ColumnValues property of a NotesDocument to return the correct value for documents that have multivalued fields.
- SPR# DSMH3HWPQ4 - Fix the FormatDocument method on a NotesNewsletter to be able to access the first document in a collection correctly.
- SPR# BLUU3JDQYP - Correctly return the Server property and the FilePath property (relative to the data directory) of a database in an agent which is running on a server.
- SPR# ROZ3JKK9B - Fix a regression problem in R4.52 which prevented rich text items on forms from being updated correctly under certain circumstances. This problem resulted in the failure of Domino.Doc in R4.5.2
• SPR# BKAN3BZT72 - Fix a LotusScript debugger resource leak that was leading to sporadic crashing.

• SPR# MBEN3FYH9U - Allow the retrieving of documents from the SearchSite database as well as from an individual database when using LotusScript to perform the search. This fix was listed in the R4.5.2 Fixlist but was not completely fixed.

• SPR# BBAN3KWR8Y - Prevent a user from receiving, Status 500: Unknown LotusScript error, even when an agent runs successfully on the Web Server. This erroneous error was reported intermittently because the previous agent run on a given Web Server thread had an error.

• SPR# JSTN398PPD - Fix a problem in which the AppendRTItem method on a NotesRichTextItem was not fully copying OLE objects.

• SPR# ASHC3F4Q9F - Set up the Execution Control List context correctly when in the About This Database and Using This Database documents so that agents run from simple actions don't crash.

• SPR# ASYC3HWHHX - Prevent an error being returned from a LotusScript agent, Signature on document is invalid (inconsistent field signatures), when the Send method on a NotesDocument was called with the parameter, attachform, set to True. This problem occurred when rich text was entered in a new field using LotusScript immediately before sending the document.

• SPR# JR0L3LMRF4 - Fix errors in the argument handling for the NotesDatabase method, GetDocumentByURL, which allows databases created in previous version of Notes to run without leaking memory in the current version of Notes.

Install
• SPR# MBE3ELQ24 - Display the Lotus Software Agreement screen correctly during installation on Windows 95 and Windows NT.

• SPR# CSCN3LZS98 - Remove the Domino.Action templates from Notes/Domino install.

• SPR# RCHR3J7KZN - Correctly create empty directories (\cgi-bin and \html for the http server) when installing Notes on Windows 95 and Windows NT using a response file.

• SPR# KHAN3FDNX7 - Allow the data directory to be changed from C:\NOTES\DATA when using the OS/2 automated install feature.

Client/workstation
• SPR# PHAN3JMM67 - Correct word-wrap for accented characters in Lithuanian Notes.

• SPR# MGAN3J4QD4 - Allow folder replication to work correctly if the Replication Setting, "Remove documents not modified in the last n days," is set to a very large number.

• SPR# JHOD3HVSZ6 - Prevent the Windows 3.1 client from crashing when attempting to display full-text search results contained in a layout region.

• SPR# CBAN3JMJP5 - Automatically refresh the design of the user's local Mailfile, personal Address Book, Log, and Mailbox when they change in a quarterly maintenance release.

• SPR# POVY3K8SSL - Fix a problem when opening very large views, such as those in very large mailfiles and in calendar views, which caused the error message Local heap is full and a subsequent crash of the workstation.

• SPR# DLON3JSRP8 - Prevent a small memory leak which occurred when changing the display on the status bar.

• SPR# RCHR33WHXC - Correctly display the title of a Navigator which has an alias in the Navigator Design window and when the Navigator is launched on Database Open.
• SPR# DBAR3HSGPR - Prevent a crash when attempting to create a Person record in the Address Book for a name which is already in use by a Group and replying Yes to Entry with specified user name is already in the Address Book. Update the entry?

• SPR# DDEY3K7QY2 - Fix URL strings to automatically become hotspots when the string is created in a subform.

• SPR# DMKA33GLZA - Prevent a user with the same name as a group from being granted the group's access level to a database even when the user type assigned in the ACL dialog for that entry is one of the group types.

• SPR# DMCY3JBUUJ - Prevent a crash when attempting to copy and paste and view with a view name of more than 130 characters.

• SPR# RSHR3JRPSS - Fix a problem caused by the fix in R4.5.2 for "Correctly highlight the current document in the view pane when the preview pane is the active window and navigation is occurring" which caused the wrong document to display in the preview pane after editing and saving in the preview pane.

• SPR# ICAO3JKPMN - Prevent an intermittent workstation hang during copy and paste when running on the same machine as a server as the Administrator's Workstation.

• SPR# YGUO3BMAJ6 - Prevent a workstation crash when opening a database through a database link when the database is set to launch a document link.

• SPR# PLAE3JBJ9N - Fix a workstation crash with an access violation which occurred when editing full-text search conditions in the Search Bar.

• SPR# GMEN3FKFXP - Disable the Copy button on the Replication History dialog after removing all entries in order to prevent a workstation crash.

• SPR# SVRO3EH2WP - Disable File->Export on documents which are created with a form which has the "Disable printing/forwarding/copying to the clipboard" attribute checked.

• SPR# NBAR3JFP6G - Prevent a workstation crash if a Navigator which is to be launched when a database is opened is missing a name and treat it as a standard folder pane database open.

• SPR# AEL3E3KHSR8 - Correctly delete flat certificates when updating ID files using the Admin Process renaming tools so that the new name can be correctly recertified with the flat certifier.

• SPR # ICRE3HBHXW - Correctly display the last line of a document when there is an action bar and when the horizontal scrollbar is on. Previously all but one line was displayed but there was no indication that another line existed.

• SPR# BLON3KPMQZ - Prevent a workstation crash with PANIC: Lookup Handle. Handle out of range, caused by the incorrect processing of an error from a QueryOpen event on a subform.

• SPR# SCHD3K7PG7 - Prevent users from adding entries to a keyword field which does not Allow values not in the list by using the Find/Replace feature.

• SPR # VPAA3E9M4V - Prevent the workstation from hanging when performing spell checking on a document containing a table and selecting more than one cell in the table.

• SPR # RSHI33AQQZ - Allow fieldnames to contain multi-byte characters and still be recognized when using the Search Builder to construct a full-text search query using Field <fieldname> contains <text>.

• SPR# RPAL3JEKU4 - Prevent the workstation from updating views unnecessarily in windows other than the current one. This problem was introduced in R4.5.2 when fixing a different problem.
- SPR# MRUH3JDRSW - Present the complete set of character set translation entries on the International page of the File->Tools->User Preferences dialog when selecting Import/Export Character Set.
- SPR# DWIN3KUJHE - Allow automatic license type upgrade and downgrade to work for users with non-hierarchical ID's and on servers with non-hierarchical ID's. Note that both client and server need to be upgraded to R4.5.3 for this feature to work. The user's location document must specify the Home/mail server by common name only, however; this problem will be addressed in R4.5.4.
- SPR# POVY3KRRXE - Fix a problem with full-text search being unable to find a string enclosed in quotes in the search bar when the string included single-byte accented characters.
- SPR# JKEY3K9LTT - Prevent the loss of the title of private views created in R3.x when they were edited.
- SPR# ATAI3KWBAY - Allow workstations to forward mail which contains a Java applet attached by a future release of Notes.
- SPR# SWT3HNCC3 - Allow for columns which change views when using the "sort-on-the-fly" feature to work within dialogs, except when changing styles.
- SPR# KHAN3JCNQR - Prevent a workstation hang when attempting to delete two groups with the same name from the Address Book using File->Tools->Server Administration->System Databases.
- SPR# DPAA37GPDS - Prevent the duplication of a database view when it is the default view and is of type Private on First Use.
- SPR# DSCZ3KVNHT - Do not treat "@" as a delimiter (like a period or comma) when doing full-text search so that Internet addresses are properly found.
- SPR# SVRO3GNQHR - Add the capability to find a note by its UNID to the NoteID tool in File->Tools->Server Administration->Database Tools.
- SPR# SCHD3JCLU2 - Prevent a crash when using a database created before R4.5x which uses the feature Store Form in Document and the form contains a subform.
- SPR# PJAN3E8KQN - When editing a rich text field contained in a subform, update the cursor position correctly.
- SPR# BLON3HXGXH - Allow a user to continue using their desktop.dsk and cache.dsk after receiving the error Insufficient Memory - Too many design elements (desk design pool), when it is caused by the list of groups to which the user belongs growing to greater than 32K in size.
- SPR# PMOL3KUMTF - Fix a crash when attempting to navigate in a multi-line view after resetting a full-text search.
- SPR# MBEN3G8V65 - Prevent a workstation hang when attempting to edit a text field in which LotusScript has embedded an object. Since LotusScript has no way of determining if a field is rich text or not when doing the EmbedObject, the editor will now check and activate the object out of place.
- SPR# KKAA3G67B5 - Correct the positioning of the vertical text in the Free Time dialog on certain operating systems which report the width and height of vertical fonts incorrectly.
- SPR# RSHI3C7MVK - Fix problems with exporting of multi-byte characters in a rich text field to a text document.
- SPR# LAN3E7NBE - Correctly recognize tables pasted into Notes from other products as tables and allow table actions on them.

- SPR# SMDN3JUV5M - Fix the recipient name resolution algorithm to honor "Stop after first match" if an exact match is found in the local Address Book when "Personal then Public Address Book is selected.

- SPR# AEPE3BKN92 - Fix a problem when activating an OCX (such as a Lotus Component) such that FX did not exchange the fields immediately and required a second activation.

- SPR# DWAS3GWOTX - Fix a problem with selective folder replication not working correctly for documents which have been removed from the folder and subsequently readded.

- SPR# PJAN3EV3TT - Allow an attachment to be saved in a signed field contained within a section.

- SPR# SCHD3HZNHQ - Enhance the support for an INI variable on the workstation which specifies the minimum number of hours between synchronization of unread marks during replication so that foreground replications will always synchronize unread marks.

- SPR# GOD3KXAMC - Show the selection margin for Edit->SelectAll and remove it for Edit->DeselectAll in database views which do not have the "Show selection margin" property checked in design.

- SPR# GSER3L5P8K - Fix a problem with the Administration Process renaming users on a Unix server from a non-Unix client which caused the user's mailfile to become inaccessible and the Calendar Profile to be incorrect.

- SPR# DCOY3LDLAD - Allow signed mail to be sent from a local mailbox even when the user is not the same as the sender. This feature enables multiple users to work on one remote workstation more easily.

- SPR# ATHS3KMS55 - Fix a crash when selecting multiple files in the file listbox on the Database Tools dialog.

- SPR# RPAL3LCLJ3 - Update unread marks correctly in a database when you refresh the view if the database is on your desktop but you use File->Database->Open to access it.

- SPR# SMDN3JUV5M - Fix the recipient name resolution algorithm to honor "Stop after first match" if an exact match is found in the local Address Book when "Personal then Public Address Book is selected.

- SPR# RSHI3C7MVK - Fix problems with exporting of multi-byte characters in a rich text field to a text document.

- SPR# JHOD3KFPK7 - Fix a problem with an erroneous error message, Lotus Notes! R4.5.2 appearing when attempting to view certain attachments.

- SPR# RSHI3F5M5M - Prevent the Simple Action pane in the IDE from accepting multi-byte characters.

- SPR# BLON3LLN8N - Import TIFF grayscale images correctly into Notes; previously they were imported as the negative image.

- SPR# AMII2R6JKK - Prevent the user selection of Large or Typewriter fonts from affecting the display of the User Preferences dialog.

- SPR# RCAE3LQR9H - Prevent a crash in File->Tools->Server Administration->Database Tools->NoteID when one NoteID is successfully found, but a subsequent NoteID is not.

- SPR# RTOA3LALZ8 - Prevent a crash in the File->Database->Open dialog when the list of databases has more than 3000 entries.

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• SPR# TAR3FJQCP - Select the correct date instead of the previous day when using the graphical date control for the first time in a layout region when the time zone is ahead of GMT and the date has advanced in GMT.

• SPR# JCO3KWLUP - Correctly enforce the Execution Control List restrictions on external programs before auto-launching an attachment contained either in a document, a form, or in the About document of a database.

• SPR# CLK39CM73 - Allow the use of Edit Paste Special in a text field as in R3.x on all platforms except OS/2. Note that only text will be pasted.

• SPR# MGAN3HBM7J - Correctly include a Form field in the document created by the Send Mail Message simple action.

• SPR# KCHG3DA8QW - Prevent a crash when accessing one Help database and selecting a document link to a document in another Help database which is inaccessible. Note that there is still a problem on OS/2 in which you get an Insufficient Memory error which will be addressed in a future release.

• SPR# MSCE3M2PEE - Fix a regression problem in R4.5.2 which produced an error, Unable to find document window, when opening certain documents.

• SPR# RSHI39U3HG - Fix a crash when minimizing a design window contained within a maximized MDI window.

• SPR# NPEO3BMR2Y - Do not update the Server document in the Public Address Book with location information when the client is being run on the server which caused unnecessary replications or replication conflicts. This fix also prevents the error, Another copy of this document was saved while you were editing it, save your changes also as a save conflict document? which appeared under certain circumstances when you edited a location record in your Personal Address Book.

**Client/workstation (OS/2 only)**

• SPR# NNGG377P9T - Fix the printing of radio buttons and check boxes on OS/2.

• SPR# TKAA3GGC7Z - Fix the printing of documents on OS/2 which use raster fonts (such as MINCHO System 10pt); formerly the printed characters were too small to read.

• SPR# BLON3KXKBW - Add three characters specific to OS/2 from Codepage 942 to character conversion tables to allow their use in agents.

• SPR# MOA3K3FVM - Fix a problem on OS/2 in which Time & Date controls in a layout region do not display when the document is displayed in a dialog.

• SPR# MPEY3LSKY2 - Fix a problem on the OS/2 client in which the list of databases displayed in the File->Tools->Server Administration->Database Tools dialogs were not for the server selected in the server listbox.

• SPR# GFLY3KBS5Q - Fix a problem that hide when formulas did not hide listboxes in layout region on OS/2.
Client/workstation (Macintosh only)

- SPR# PMOL3JCNZ4 - Fix the list of recommended free times in C&S to display correctly on the Macintosh.
- SPR# PMOL3K3KHE - Display Spell Checker guesses on second and subsequent misspelled words on the Macintosh by repainting the screen correctly.
- SPR# PMOL3JDMWM - Open the About Database and Using Database documents correctly in Design mode on the Macintosh. This problem was introduced in R4.5.2.
- SPR# FPAI3KERDC - Fix a problem with the font table section of a document exported in rich text format on the Macintosh.
- SPR# MOBN3J8JFS - Fix a problem on the Macintosh such that printing a view is the default dialog selection when in a Calendar view.
- SPR# BCOR3DUTDB - Prevent database corruption when editing a form, which has one of the autolaunch properties set, on the Macintosh.
- SPR# JCAT3KJTUP - On the Macintosh, file attachments are now launched using the applications specified in the File Mappings section of Internet Config (if installed).
- SPR# MLAT3FXPPU - Provide support for Greek, Cyrillic, and the Central European languages on the Macintosh.
- SPR# EKEN3KGNMQ - Changed XLAUNCH file type to 8BIM in order to launch Photoshop files.

LAN/WAN

- SPR# ERYR3JBQV4 - Correct a problem on Windows NT, where server performance on the LAN slows down dramatically when a modem connection is established.
- SPR# NSHS3GTAXA - Prevent an error indicating that a valid X.400 O/R address enclosed in double quotes cannot be found in any Address Book and will be skipped from being displayed when sending a memo from a client using a server-based mailfile.
- SPR# JCAT3KJTRH - Include the modem file, pb3400.mdm, for the Macintosh PowerBook 3400 internal modem in the kit.
- SPR# GSPT3LLJFG - Handle the status of external remote LAN connections correctly when the Remote LAN idle time-out is set to 0 in the Server record in the Address Book.

Web server

- SPR# MDEU3HYR6C - Prevent a workstation crash when accessing a customized $SearchSiteTemplate form via a URL and attempting a search.
- SPR# RCHR3ELQFW - Correctly update user roles so that changes take effect in Web applications while the server is running.
- SPR# MJAS3FHPTZ - Update database titles when they are changed so that Web clients see the change in Database Open.
- SPR# MAMR3JZPJ6 - Fix a problem with the Domino Log missing the first character of certain fields on OS/2.
- SPR# DMEA3JTRL8 - During Web Server initialization, make sure that the cache directory is set up on a disk volume whose file system supports long filenames, e.g. HPFS.
- SPR# MHAC3H4MDJ - Prevent browsers from receiving the error, Error 500 - HTTP: Unknown Exception, when attempting to access a document which contains an attachment which is contained in a cut and pasted view.
• SPR# GLEH3JMR8N - Prevent a problem with the HTTP server on the Windows NT Alpha platform which returned an error, Document contains no data to browser users attempting to access a database when the default access is "No Access" and the options are checked for Read public documents and Write public documents.

• SPR# RCON3KPU8G - Display the filename for a database which has no title in the list of databases presented to a Web browser using the OpenServer command.

• SPR# RCON3KPT3R - Allow the use of lowercase hex characters in URL % encoded data in a Java applet.

• SPR# AWHN38HRS5 - Allow the HTTP server to be installed in a Notes directory containing spaces in the name.

**Web Navigator**

• SPR# CYTN3JEKDB, BLON3JEL9W - Prevent secured Web pages and private Web form submissions from being cached incorrectly by the server-based Web Navigator in such a way that users after the first one get an incorrect encryption error Retrieval of authenticated Web pages in background server agent is not supported, and are unable to view the page.

• SPR# PMCY3GGREA - Prevent a workstation crash with PANIC: LookupHandle: handle not allocated when retrieving certain URL's.

• SPR# JROL3KQTAY - Fix various memory leaks in the Web Navigator.

• SPR# BKAN3GVQY5 - Increase the stability of the Web Navigator when running under low memory situations.

**Calendar & Scheduling**

• SPR# MALZ3EGLKD - Fix display problems on OS/2 when creating a Task and using the time control to enter dates in the Start and End Date fields. Problems when using the keyboard were fixed in R4.5.2.

• SPR# PMOL3JCNZ4 - Fix the list of recommended free times in C&S to display correctly on the Macintosh.

• SPR# HBAY3D3P79 - Fix a problem with appointments which repeat monthly by date having the time changed when the meeting is moved from a weekend day.

• SPR# DCAO3LRPHR - Fix a problem in printing of C&S two-day views in which the shaded area indicating the appointment times wasn't printing. This problem has been fixed on all platforms except OS/2 which will be fixed in the next maintenance release.

• SPR# WEBB3LMN82 - Prevent a crash when attempting to print an empty calendar view.

• SPR# MALZ3HZQ9D - Correctly display user's free time for another timezone if the timezone is in a different day (across the international date line).

**POP3 mail server**

• SPR# UCHO3JBQTW - Fix a memory leak which prevented the POP3 Mail Server from running and displayed the error, Maximum number of memory segment that Notes can support has been exceeded.

• SPR# HAT3KBKTD - Correctly replace spaces in domain names with underscores when replying to mail using POP3.
Server
- SPR# DAJR3L3L5W - Fix a Router crash which occurs when attempting to transfer mail for a user whose Public Key in the Address Book Person record has been modified and truncated.
- SPR# JPAI3L4LZY - Fix a problem which prevented databases from growing beyond a size of 2 gigabytes on Windows NT servers under certain conditions.
- SPR# ANOT3JSSH7 - Implement a change to conserve space in the NIFPool as it starts to approach full, preventing getting the error **Insufficient memory - index pool is full**, when the pool was fragmented but not full.
- SPR # ASHH3GUEY4 - Allow the use of port encryption on partitioned servers.
- SPR# BCOY3JNT6T - Prevent a crash in the Schedule Manager if the Free Time Information database is corrupted.
- SPR# DDEY3JVKF5 - Prevent a possible problem with the Agent Manager, Chronos, Full text search, and the Scheduler being unable to find a database which has been consistency checked at server startup time.
- SPR# DKEY3HYT4L - Prevent an intermittent server crash resulting in **PANIC: UnlockObject: already unlocked**.
- SPR# JPAI3HZG77 - Prevent an intermittent crash in UPDALL resulting in **PANIC: ReallocDbObject: 0 RRV**.
- SPR# SCHD3J8M2P - Fix the feature which allows limiting the allotted time for replication in a Server Connection document.
- SPR# MCA3HFNP4 - Fix problems with the Billing feature being unable to log certain transactions and reporting, **Billing error in MQGet: Message is larger than the buffer provided**, in the Server Log.
- SPR# ACOX3ESPAR - Only search for an Escrow Agent in a server's primary Address Book.
- SPR# SKKY3L3QEQ - Fix a problem with the full-text index not being rebuilt when needed if the Index Breaks option was changed from "Word breaks only" to "Word, sentence, and paragraph."
- SPR# JLIN3LUSX2 - Fix a problem where a router thread hangs on a NetWare server and prevents subsequent deliveries to the destination server. The message which was logged was **Router: Waiting for 1 delivery thread(s) to quit**. This fix is a temporary workaround for a problem with the NetWare operating system.
- SPR# KGAR3JSEQX - Fix a problem introduced in R4.5.2 which caused the server console to display incorrect characters on systems which have different character sets for character mode and for GUI mode.
- SPR# ASHH3JC87C, ASHH3JC92T, JSMH3G6KBG, CRAO3KXHZ7 - Fix various problems with scheduled replication, routing, and program documents not running as specified after running once successfully and not showing correctly in the schedule.
- SPR# JKEN3BSSAR - Enhance the Mail Upgrade utility to set the bit for folders to not allow design refresh/replace to modify in case the folder was created when the database was not set to inherit design changes.
- SPR# SMDN3LTTBV - Fix a problem which caused users not to be able to address mail to recipients in secondary Address Books (defined in the Master Address Book) on heavily loaded servers.
- SPR# DKEY3LKT66 - Fix a crash which occurred during full-text indexing in certain low memory situations.
- **SPR# GCAR3LM2A** - Prevent **Server Not Responding** errors from being returned to users who are members of a Group in the Address Book while changes were being indexed; this problem was only noticeable on very large groups.

- **SPR# GPFM3JMMD** - Prevent an intermittent hang when running the workstation on a server and editing the Server document in the Address Book.

- **SPR# MGRS3B4RWW, MDLS3CJTHA** - Allow the Mail Upgrade utility to work for Windows 3.1 users provided the hierarchical Mail Server name is short enough and provided the "Notify administrator when users complete mail conversion" option is not used. The problem that was fixed allowed spaces to be included in the arguments presented to the Mail Upgrade utility. The remaining problems exist because of the limit of a Windows 3.1 command line to 98 characters.

- **SPR# DSMH3EUP99, MGRS3L7KHE** - Allow the Mail Convert utility to work correctly when run multiple times on a mailfile.

- **SPR# DAJR3M7KEY** - Fix highlighting problems introduced in R4.5.2 for full-text indexes which are built using the option, "Word, Sentence, and Paragraph."

- **SPR# TNIT3K5SC4** - Fix the Router to deliver C&S mail to foreign domains by using the information in the Server Domain record properly.

LS:DO

- **SPR# DMAN3JETXA, HNIO3JX92Z, BBAN3KWPCX, DMAN3KGP6D, DMAN3CRQES, DMAN3JHRSC, DMAN3HKRA7** - Fix multiple problem with the ODBC driver, in particular its inability to be used in a multi-threaded http server environment.

**UNIX platforms:**

**Client**

- **SPR# DQUY3KNPTG** - Fix a client problem on AIX where when multiple windows are open, the Infobox focus does not change correctly - the focus remains in the view most recently minimized instead of changing to the window that is currently on top.

- **SPR# YGUO3D4CNU** - Fix a problem so Notes client no longer terminates when `<File><Replication><Switch Replica>` is selected on local server.

- **SPR# SJCE3HF2TL** - Fix a problem in the AIX client where Notes no longer terminates abruptly when the following sequence of selections are made while in the Replicator Workspace: selecting the Local Free Time arrow button, then clicking either OK or Cancel, followed by clicking the Database templates button.

- **SPR# YGUO39SAHM** - Fixed a problem where selecting the server console and send command "Show Server" from a Notes client using File/Tools/Server Administration, the echo incorrectly displays as "Notes \ Server...." when it should be "Notes TM server...."

- **SPR# YGUO3BUC3P** - Fixed a problem on AIX where the Chinese translated version of Notes now displays Chinese characters correctly when Chinese IME is enabled and new characters are entered in the middle of English text.

- **SPR# YGUO3AFCUA** - Fixed a problem in the Chinese translated version of Notes where selecting Shift + F4 to enable Chinese IME, now displays the entire IME bar.
Server

- SPR# JCOS3KXJGU - Fixed a problem where migrating a Domino AIX Server from 4.51 to 4.52, a faulty error message is received indicating that there is not enough disk space. ERROR message “There is not enough disk space available” is no longer received.

Web Server

- SPR# LASH3GTNLC - Fix a problem so that AgentRun and Agent.Execute functions do not cause the server to terminate when called more than once within a single API application session. The error message Unknown LotusScript Error is no longer received.
- SPR# SHOR3JJUH - Notes/Domino now correctly detects, traps, and reports when a document with an invalid structure is encountered.
- SPR# PTAM3JEP7Z - Fix an http server problem on Solaris/SPARC that occurred during load (or stress) testing such that the error message Fatal Error signal = 0x0000000b PID/TID = 739/11. Freezing all server threads ... no longer occurs.
- SPR# SKIN3KUV88 - Solaris/SPARC server no longer terminates abruptly when a form containing an @Command([EditInsertFileAttachment]) call in it is accessed via Netscape 3.0.1 browser. Document contains no data no longer appears when the New Message button is selected.

Client, Server

Notes and Domino Release 4.5.4

The Release 4.5.4 new enhancements included in the 4.6.x releases are as follows:

API

- SPR# DANO3LRRDR - Prevented the error, “Document has been modified or corrupted since signed! (data),” when design elements of the mailfile are modified by a MAPI client.
- SPR# DANO3HSQNS - Fixed a problem where memory leaks occurred after reading a new message using a MAPI client.
- SPR# DANO3N2SDQ - Prevented the error, ”Document has been modified or corrupted since signed! (data),” when documents in a mailfile are modified by a MAPI client.
- SPR# DANO3N9RLN - Prevented a ”Integer divide by zero” exception when reading a mail message, which contains an .EML attachment from a MAPI client.
- SPR# SPER3ETL37 - Fixed ConvertItemToText to not insert end-of-line characters at 256 characters, ignoring CharsPerLine.
- SPR# JHAM3BENBD - Fixed various NSF API calls to initialize memory properly when calling the functions on Windows 3.1.
- SPR# JJML3HWMHG - Fix the interpretation of dates which are written as two numbers in order to interpret dates correctly in the next millenium.

If the International date format indicates that dates are displayed as Month/Day/Year (for example, United States), and the user enters a date with two numbers, then:
If the Date Display format is TDFMT_DPARTIAL (month and year), the first number is the month and the second number is the year. The day is set to 1.
If the Display format is anything other than TDFMT_DPARTIAL, the first number is the month, the second number is the day, and the year is set to the current year.

If the International date format indicates that dates are displayed as Day/Month/Year (for example, France), and the user enters a date with two numbers, then:
If the Date Display format is TDFMT_DPARTIAL (month and year), the first number is the month and the second number is the year. The day is set to 1.
If the Display format is anything other than TDFMT_DPARTIAL, the first number is the day, the second number is the month, and the year is set to the current year.

If the International date format indicates that dates are displayed as Year/Month/Day (for example, Hungary), and the user enters a date with two numbers, then:
If the Date Display format is TDFMT_DPARTIAL (month and year), the first number is the year and the second number is the month. The day is set to 1.
If the Display format is anything other than TDFMT_DPARTIAL, the first number is the month, the second number is the day, and the year is set to the current year.

- SPR# JIMN39WPWA - Correctly update the design collection after adding a Private agent note to a database programmatically so that NIFFindPrivateDesignNote returns the NoteID without having to close and reopen the database and view the agent list to initialize the collection.
- SPR# GFLY3MTKZ4 - Increased the number of characters handled in a mail address sent from a MAPI client from 75 to 128.
- SPR# MDOR3JKGG6 - Fixed a problem in which ConvertItemToText intermittently breaks words incorrectly when wrapping text to a new line.

Calendar & Scheduling
- SPR# SVRO3LUQLF - Fixed a problem in which, for time zones east of GMT, the "Day X" and "X days left" displayed in the calendar were both off by a day.
- SPR# HBAY3D6MAP - Correctly display on OS/2 timezones east of GMT. Also correct a problem on all platforms with the display of timezones, which are on half-hour and quarter-hour boundaries.
- SPR# MALZ3N4SFU,SHOR3JBJW4 - Prevented corruption of busytime.nsf by the schedule manager on Windows NT Alpha and Unix platforms.

Client/Workstation
- SPR# JKEY3M9K34 - Fixed a crash when an Action uses @Command([EditDocument]) and the user need to enter a password.
- SPR# MSCE3MWSYT - Fixed a problem where Notes appeared to be hung when cancelling a cut operation on part of a table.
- SPR# DBRO3GQL2M - Fixed a crash when using keyboard navigation and selection in infobox lists.
- SPR# WEBB3MX9RZ - Fixed a problem where column headings did not print out as requested but used the properties of the column contents instead.
- SPR# KTHN3LSK92 - Display the Location information from the Address Book in the Mail Address dialog box for all users.

- SPR# CKAC392S3M - Fixed a problem in which the Navigate Next Unread button skipped a document after moving a document into a folder, for instance, while reading one's mailfile.

- SPR# JHOD3NAP3W - Correctly refresh a view (including unread marks) after removing a document using drag-and-drop.

- SPR# PMGL3LXRKU - Allow the import of a graphics file into a rich text field contained in a subform in a document.

- SPR# LDEY3LRPEG - Fixed a problem that allowed the selection of HotSpot elements in a layout region resulting in a crash.

- SPR# NIN3KMHG6 - Prevent a user from choosing a person whose Mail system is set to None in the Address Book when using the Mail Address dialogs.

- SPR# BARA3HRFDP - Fixed a problem in which the "Discard View Indexes" option on the Compact selection on the File - Tools - Server Administration - Database Tools dialog did not work for remote databases.

- SPR# JLIN3JT2C7 - Prevented a connection attempt when clicking Cancel during server selection on the File - Tools - Server Administration - Database Tools dialog.

- SPR# SYPK3MEEVW - Fixed a problem in which the "More Info" dialog displays garbage in the "Destination file path" field when you select File - Tools - Server Administration - Database Tools and have no destination server selected.

- SPR# MTAI3ETGHL - Correctly honor access control on a section in a subform.

- SPR# WEBB3MF2ZW - Fixed the decimal tab feature to work when a comma is used as the separator.

- SPR# SJCE3MM96A - Allow database titles that contain multibyte characters to display correctly on the Replicator workspace.

- SPR# CRAO3N3N74 - Fixed a crash when copying a script action to the clipboard just after saving the form or view design.

- SPR# MTAI3LQBEX - Correctly handle unknown entries in the RTFFontTable when pasting rich text from other applications.

- SPR# BWEK3M9TWV - Fixed a regression problem introduced in Release 4.5.2 that prevented embedded OLE objects from autolaunching when the form property, "Formulas inherit values from selected document" was selected.

- SPR# ATHS3DZTNK - Fixed several problems with the File - Tools - Server Administration - Database Tools - Analyze a Database dialog, including not displaying the correct Results Database, the initial dialog not using the current setting for the Results Database, and the Overwrite option not working.
- SPR# MJUK3LQJJF - Fixed a crash caused by selecting more that one option in the Replication Setting dialog for a database type of Address Book.
- SPR# SCHD3G2QBD - Correctly replicate Shared folders and Shared, Personal on First Use, folders from client to server when the user has Editor or below access to the database.
- SPR# NIN3DHGU7 - Correctly provide the destination folder name to the QueryAddToFolder event when using a folder alias in a navigator.
- SPR# SMER3JSQ23 - Fixed a crash that occurred when inheriting more than 64K of rich text into a field of a document composed with a form, which has the "Inherit entire document into rich text field," attribute selected.
- SPR# DREY3LYHUX - Prevent the "Add a server to the list of servers" dialog from appearing again after typing in the name of a valid server when selecting Other in the File - Tools - Server Administration - Database Tools dropdown list of servers.
- SPR# SVRO3BMW3D - Prevent a document from being dragged and dropped onto its current folder alias in a Navigator. This action previously caused the document to be deleted from the folder.
- SPR# ACY3FSJ7A - Fixed a crash when launching a navigator from within a navigator using LotusScript.
- SPR# CRAO3N9KGJ - Fixed a problem with loss of data in a document when entering a return in a table after a hotspot button outside of an editable field.
- SPR# CRAO3LYJVF - Fixed a crash when selecting text in a keyword field and then typing a character.
- SPR# HWAI3LKA75 - Prevent a crash when opening certain forms in Design mode.
- SPR# JSMH3M3KVU - Prevent a user from modifying the ACL of a wildcard replica database before it has been populated and the intended ACL replicated. This fix is partially accomplished in the ACL editor and enhanced by not showing the uninitialized replica database in the Open Database dialog.
- SPR# RMAS3NKL3L - Prevent users from pasting views into a database when they do not have access to create personal folders or views.
- SPR# LCAL3EUSEH - Fixed a regression problem introduced in Release 4.5.3 for a problem already fixed in Release 4.5.2. Correctly display the Actions - Special options dialog when using mail. The text, "I am sending this Notes document to other Notes mail user(s) through the Internet," was truncated.
- SPR# DREY3LYHNM - Fixed a problem in the File - Tools - Server Administration - Database Tools dialog box in which pressing the Enter key after typing a server name in the Server listbox to get a list of databases resulted in the dialog closing (since the Enter key was interpreted as the Done button).
- SPR# DMAR3LCRE7 - Fixed a crash that occurred when cutting/copying a Hotspot inside a table.
• SPR# RKAY2SDRPE - Prevent users from seeing a list of databases in a directory link to which they did not have access.

• SPR# MCA3NSDBM - Change the message displayed on the status bar when sending encrypted mail from "Encrypting document with your private key" to the correct message, "Encrypting document with your public key."

• SPR# SVRO3LCQR7 - Fixed a screen refresh problem that caused the position of the paragraph character to be updated improperly when the View - Show - Hidden Characters option was enabled and text in the paragraph was edited.

• SPR# DREY3LYJCK - Fixed a problem in which the error message, "This operation does not work on flat servers," was displayed, preventing the "Create a replica" and "Move a database" tools accessed from File - Tools - Server Administration - Database Tools from working when the administrator entered the common name of a hierarchical server even though the correct server had been found.

• SPR# JBLG3MGPU3 - Prevent the loss of text color in special effects when viewed by R3.3x clients.

• SPR# JHOD3MLNUQ - Fixed a crash on the workstation reporting the error, "LookupHandle: handle not allocated," when attempting to open a document.

• SPR# MMGN3KLR4U - Correctly enable the Next button on the Register New Person dialog after moving back to an existing entry.

• SPR# ABAN35FPXT - Correctly display a bidirectional arrow icon on the Replicator page for a database created using the CreateReplica method on a NotesDatabase in LotusScript.

• SPR# PMNY3NTFRU - Handle the ESC key correctly on certain European keyboards when the Caps Lock key is enabled.

• SPR# GZYN33Q72K - Increase the character size for Chinese characters on Windows systems.

• SPR# CMUY3N6JPB - Fixed a problem with applications crashing when updating a document through an Action button when there was no view open.

• SPR# BALN3KZ2UP - Prevent a crash when replicating a subset of documents including a single public view and any number of private views.

• SPR# SHOR3GSVRR - Fixed a problem with directory links being created in the wrong directory on a Unix server when using File->Tools->Server Administration->Servers-Directories and Links on a non-Unix client.

Client/Workstation (Unix only)

• SPR# YGUO3FHCXN - Fixed a problem in the International English version of Domino and Notes, which was configured to display the Chinese double-byte character set. It was not displaying the correct bubble help text for the "File Save" icon.

• SPR# SYAO3HPC72 - Fixed a problem with the International English version of Notes/Domino where the Japanese input method (Wnn6) was not being accepted on AIX.
Client/Workstation (Macintosh only)

- SPR# EKEN3FJSSG - Fixed a problem on the Macintosh in which keyboard commands to navigate the font properties in the Text Properties box did not work properly.
- SPR# DREY3NAM3Q - Allow the focus to be other than in the Infobox when displaying an Infobox on the Macintosh.
- SPR# LCAL3BMQGE - Fixed a display problem on the Macintosh when displaying collapsed section.
- SPR# PMOL3L4MPF - Store a properly canonicalized pathname in a new replica stub created on a Macintosh so that it can be initialized.
- SPR# AFUI3NBDPS - Fixed a crash when running Notes on the Japanese Macintosh MacOS 8 and using Kotoeri.
- SPR# RGET3K9PJZ - Allow the use of multiple spaces in the Macintosh hard drive name where Notes is installed. Leading space in hard drive names are still not supported.
- SPR #EKEN3FYRRF - Allow Macintosh users to choose whether to install any modem files.

Client/Workstation (OS/2 only)

- SPR# FROO3HWFG7 - Prevented a crash on OS/2 when deleting the only remaining object while designing a Navigator when the Infobox is being displayed.
- SPR# VMAA3M8JQC - Correct the order on OS/2 of the design elements listed in the design pane under Design - Other.
- SPR# PDES3NLVR3 - Fixed a regression problem introduced in Release 4.5.2 that caused the OS/2 client to crash when pasting rich text copied to the clipboard from another application.
- SPR# CKAC33WQYJ - Allow Notes to be restored properly on the OS/2 client when it's been minimized using an Attachment Viewer window.

Install

- SPR# EGAN3EQP8Y - Correctly install the following files when doing a node install on Windows 3.1: ole2.dll, ole2.reg, ole2conv.dll, ole2disp.dll, ole2nls.dll, and ole2prox.dll.
- SPR# KSTG3NZQEL - Correctly install IEDITFAX.DLL in the International English version of the OS/2 kit.
- SPR# GMEN3NKFE5 - Changed the Daylight Savings Time default for International English Notes/Domino to be from March through October as is true in the GMT timezone. The Time Zone Setup dialog still reads April-October; however, and this problem will be fixed in a future release.
- SPR# JDAS3DJTBZ - Fixed the inability to do a node install on a diskless workstation. In previous releases, when the install program attempted to update the user's (non-existent) autoexec.bat, it reported the error, "Toolkit + 1410 +Toolkit + 5800 + Unable to Open File."
- SPR# LJWE3M8LRQ - Removed cladmin.exe from the standard Server installation.
LAN/WAN

- SPR# ASHH3CAC5W - Prevent the server console from locking up after doing "Show Port SPX" on a NetWare server running as part of a cluster.

LotusScript®

- SPR# CMUY3M3GQA - Fixed a problem in which the evaluate( ) function in LotusScript did not free allocated memory causing the server to run out of memory when running agents that use this function.

- SPR# PJAN3N3PY4 - Prevented a very intermittent crash or LotusScript termination when debugging is turned on.

- SPR# RBER3CFGQQ - Allow the use of the Shell command in LotusScript agents on OS/2 servers.

- SPR # CRAO3KRRZ3 - Fixed a crash when using the StampAll method on an empty NotesDocumentCollection.

- SPR# MBEN3GLFNZ - Prevent an erroneous error message, "Notes Error: NIF_FOLDER_COUNT," when using the Remove method on a non-existent NotesDatabase.

- SPR# KSMH3KMH7S - Correctly return the first 32K of text using the GetFirstItem method on a NotesDocument when the size of the item is larger than 32K.

- SPR# JCD3GCNXU - Fixed the New method on a NotesRichTextItem to work properly (that is, the same way that the CreateRichTextItem method on a NotesDocument works).

- SPR# MAMR3JBPC8, RPEN3LSKUU - Fixed a crash caused by calling the GetAgent method on a NotesDatabase when an agent was currently running.

- SPR# DBRN3LYVPH - Fixed a problem with display corruption in a very long MailLog created by the LogAction method on a NotesLog.

- SPR# SVRO3NKQC7 - Fixed a problem with the Save method on a NotesDocument not saving uninitialized keyword fields correctly.

- SPR# PJAN3CGM9U - Allow LotusScript to access documents in a Private on first use folder.

- SPR# RBER3NQRJZ - Added a new Hidden method "PartialText" on the NotesItem class to be used after each GetFirstItem and GetNextItem (Hidden) method call. The problem of not returning all of the data in a large rich text field will be fixed completely in the next major release.

- SPR# KSMH3A3TBC - Correctly report an error message when attempting to export LotusScript from the IDE to a file in a directory to which you do not have write access.

- SPR# RBER3KRRBE - Fixed a problem with the GetAllDocumentsByKey method on a NotesView returning N-1 documents whenever the number of documents was greater than 16,128.

- SPR# JGIM3KPTRB - Fixed a problem in which doclinks created by LotusScript did not include a Hint server, which in turn caused the Servers to Search dialog to display. The Hint Server is only available when the database containing the document collection is opened with a server name in the script or if the script is executed with a schedule on the server.
- SPR# TDOO3LCQNT - Prevent the Agent Manager from crashing with "OleMainThreadWndName : namgr.EXE - Application Error" when a non-string variable is passed as the name of a new NotesItem.

- SPR# JCOS3MFGQA - Handle certain extended characters in Codepage 932 correctly through LotusScript on OS/2.

- SPR# CMOS3ENLHA - Fixed a memory leak when executing multiple agents. This problem was previously addressed in Release 4.5.2, but another memory leak was found and fixed in Release 4.5.4.

**LS:DO**
- SPRs# DMAN3LCRLH, WWR3MU5J4, DMAN3LAU5R, BLUU3NTSZR, CDOS3NPP65, CPAE3GGE4F, DMAN3CGSPV, DMAN3LQNV5, DMAN3MAQR3, DMAN3MDRS8, DMAN3CLUD, DMAN3NCM3L, DMAN3NMC96, DMAN3NKNHEH, DMAN3NKVGT, PJAN3J4MUM, PJAN3NRJ6E, RSHI3NK7J, RSHI3P827L, TECY3HK9TN - The Notes 4.54 release of the LotusScript Data Object (LS:DO) is a major upgrade that includes updated features, improvements in stability, and major bug fixes. The updated features include additions to improve the result set update, as well as additions to data type conversions. The stability is improved by fixing memory leaks and correcting remaining open connections. This upgrade also includes over four months of continuous testing with the entire test suite, including significant International testing. As a result of the extensive testing, Lotus has fixed 22 bugs and numerous SPRs.

**POP3 Mail Server**
- SPR# PMNY3L5KBB - Allow the POP3 mail server to work on systems that use codepage 1251.

**Server**
- SPR# MGRS3BZKT8 - Prevent the Mail Upgrade utility from terminating when it attempts to convert a category to a folder and the category uses a "reserved" word, such as Calendar, Archiving, Meetings, and Discussion Threads.

- SPR# JSMH3LQP3S - Fixed a problem in which a user or server with no write access to the Address Book could write cross certificates.

- SPR# BOR3M7BZ7 - Fixed a problem in which you would not get an alarm when a disk space threshold of 2GB or greater was exceeded.

- SPR# PDUA3AY6YA, JPET3JSM59, JPIU3G8FH7, HAN3FC7D - Fixed a problem in which the Reporter and Collector tasks (which cannot run concurrently) would not load even if the other task had been unloaded. The server had to be completely restarted to clear the condition and load the other task.

- SPR# MWAY3MOSCE - Fixed a server crash from a stack overflow that resulted in a rip file, which referenced the function, RemoveResponseFromParent, over and over again.

- SPR# RHON3NCM9P - Prevented a certain case of a database’s UNID index being corrupted, which would result in the creation of duplicate documents during replication and other problems.

- SPR# MNAS3NDMN3 - Allow a server or user to access more than 1,259 different servers and store information about each identity in its ID file without crashing during authentication.
- SPR# ATHS3NRLEQ - Improved the capabilities of Fixup to find and fix IDTable corruption, which when present in a database caused a server crash when a client attempted to open it.

- SPR# AKUA3MMAC2, PKEA2YLN3X -- Display the database size correctly in the Notes Log when the size is greater than 2GB.

- SPR# JLIN3DKLPX - Prevent the NetWare error, "Cache memory allocator out of available memory," from occurring when trying to run the full-text indexer by changing the memory allocation scheme on the NetWare server.

- SPR# JKAH3PCSYH - Corrected the behavior of agents in that restrictions on their ability to run come from each agent's signature even when an agent is called from another agent. The change undoes a fix for SPR# LZAA3C9MCV in Release 4.5.2, which determined a called agent's restrictions from the restrictions of the top-level agent. This behavior is now the same for all types of agents (simple, LotusScript, Java) and it is the same in scheduled agents on a server and agents on the Web. Agents invoked by the user interface; however, inherits their restrictions from the user who is running them.

- SPR# SMUN3PCKQL - Make QNC.EXE the default debugger on Windows 95 and Windows NT servers. This change reverts a change that was made in Release 4.5.2.

- SPR# CLIR3LCQ3H - Fixed a regression problem introduced in Release 4.5.2, which resulted in the Update task crashing with a Lookup handle out of range when full-text indexing certain databases that contain documents with attachments.

- SPR# SVRO3PFRQK - Fixed the Router so that mail Confirmation Reports are able to be matched with the original mail message in all cases.

- SPR# DCOY3PFLFQ - Fixed a problem where users' work hours revert to previous values in the busytime database, but are displayed correctly in the calendar profile resulting from the Calendar Profile having a replication conflict.

- SPR# MOBN3PLS6Q - Prevent a memory leak on the server every time a replication conflict is merged eventually resulting in the need to reboot the server to free up memory.

- SPR# TNIIT3LRM7Y - Fixed an obscure and intermittent problem in the Router in which, on very heavily loaded mail hub servers, occasionally some mail was not properly delivered. This fix also prevents a crash in the Router on a very fast machine running as a heavily loaded mail hub server.


- SPR# SMUN3NGN6W - Prevent a replication session from failing in the middle and reporting "Remote system no longer responding" erroneously when the Router begins to route mail on the same connection.

- SPR# HSAI39P9HA - Correct a problem in which incorrect connection times were recorded in the Notes Log if a user tried to pass through a valid passthru server to a non-existent server.

- SPR# TNIIT3LEJQ6 - Prevent the loss of attachments when Object Collect is run on a shared mail database when the document has been edited and, therefore, moved back to the user's mailfile.
• SPR# MSCB3HPT9W - Prevent the Local Timezone and Daylight Savings Time fields in the Server document in the Address Book from being modified when a server is recertified.

• SPR# MROE3NRTAM - Prevent the Stats task from consuming too much CPU time.

• SPR# BLON3NLQSX - Prevent a problem with accessing any original attachments on a mail message when Reply with History is used and a new file is attached when using the Single Copy Object Store.

• SPR# BLON3NGLD7 - Fixed a problem with Fixup reporting "Database is corrupt -- Cannot allocate space."

Server (Unix)

• SPR# MZET3PKTCW - Fixed a crash on servers resulting in a "PANIC LOOKUP HANDLE NULL HANDLE   SIGSEGV" on the server console. This problem has only been seen on Unix servers but the fix is for all platforms.

Templates:

Public Address Book

• SPR# NOPF3NTRKM - Fixed a problem in which a Connection document that contains the Source Domain field retains the field even when it is edited to be an SMTP Connection document and produces an error when the SMTP MTA loads.

• SPR# PCAN3JNGJV - Added support for the Baltic character set on the HTTP Server.

Mailfile

• SPR# JCAN3JMFXX, SCHN3HQE6C, JNZ3EHMGU - Fixed several problems with repeating Calendar entries that occurred when using international date/time formats.

• SPR# MGAN3LRUPG - Fixed a problem in which regular broadcast invitations were not removed from Inbox when autoprocessed if requested in the Calendar Profile.

• SPR# RNES3HA6P4 - Fixed a problem with international date/time formats not appearing when double-clicking in the Calendar view to create a new entry.

• SPR# DCZI3HBCX2 - Display the correct time in a Calendar when an invitee in a different timezone proposes an alternate time for a meeting.

• SPR# SKKY3MEKPQ - Fixed a problem with messages in the Inbox received from oneself or as a member of a group not being able to be edited and resent when using the ESC key and selecting the "Send and keep a copy" radiobutton in the dialog.

• SPR# CRAO3N5RX2 - Prevent the display of errors, "Type mismatch (Postopen)," and "Variant does not contain a container," when creating a calendar entry by double-clicking on the time slot in the Two Day calendar view when the default appointment/meeting duration field is empty in the Calendar Profile.
• SPR# RJAN3NWLGQ - Validate the presence of an entry in the “time in advance” fields when alarm notifications are enabled in the Calendar Profile.

• SPR# APAI3LZTPH - Fixed a problem where the Meeting Dates field in the Repeating meeting information dialog showed a modified time even after cancelling the drag and drop action to change the time/date.

• SPR# APAI3M3PFH - Fixed a problem where opening up a meeting notice that had a confirmation sometimes displayed the wrong time.

• SPR# DCZI3HV7LV - Fixed problems with changing the date in a repeating appointment and selecting "All previous" or "All future" incidences.

• SPR# RJAN3NPLQ2 - Correctly check for conflicts when using AddToCalendar on a non-repeating broadcast invitation.

• SPR# APAI3M3PFH - Fixed a problem where opening up a meeting notice that had a confirmation sometimes displayed the wrong time.

• SPR# RJAN3P2JBP - Fixed a regression problem introduced in Release 4.5.3, which caused freetime information to be incomplete when Calendar Profiles were created automatically in a new mailfile.

Resource reservations

• SPR# SGOY3EPM5J - Fixed a problem where the incorrect Site name was appearing in the Reservations Database for resources at another site.

Statistics and Events

• SPR# MROE3NDPTV - Remove the selection of the "Remove documents not modified in the last n days" from the Events database template, EVENTS4.NTF, so that new databases created from the template replicate all documents correctly.

• SPR# MROE3L6H6S - Removed Create Trouble Tickets from the menu in the Statistics database. This feature is now only accessible through a button.

• SPR# MTAI3KP9WP - Correctly include the Update keyword in the “Event Type” keyword list in the Statistics and Events database.

• SPR# MSWN3M9K9E - Correctly save changes to the Mail-In Database name in the Statistics and Events database.

• SPR# MOBN3NXG3X - Show the correct field help for the "Mail-in database address to receive reports" field in the Server to Monitor document in the Statistics and Events database.

• SPR# MOBN3NXH9D - Fixed the Action button in the Servers to Monitor view in the Statistics and Events database to be "Edit Document" when in read mode (instead of "Save Server to Monitor").

• SPR# MOBN3NXCWY - Fixed a problem in the Statistics Reporting database in which an Alarm trouble ticket is sent to the wrong person.
Web Navigator

- SPR# PSAN3MWEBM - Prevented a crash when the Web Navigator encountered bad HTML, that is, when there was an extraneous (</STYLE>) tag.
- SPR# JTAAM3EF3Q - Fixed a crash when attempting to convert incomplete GIF files.
- SPR# JROL3MHJQT - Prevented a crash when the Web Navigator encountered bad HTML, that is, there was an extraneous (</SCRIPT>) tag.

Web Server

- SPR# MKEN3N4PEA - Fixed HTTP crash caused by incorrect post data received.
- SPR# JCHN3N4HDT - Fixed HTTP crash caused when parsing incomplete post data.
- SPR# MKEN3N5NS8 - Fixed an intermittent HTTP crash caused by improper memory access.
- SPR# MKEN3MWQEX - Fixed a possible denial of service problem that was encountered on the notes.net Web site.
- SPR# MJAS3M7NLU - Display the correct release number in the banner displayed on pages served by the HTTP server.
- SPR# KHOT3EVPRD - Correctly trim keyword aliases that contain leading spaces so that the correct choice is saved when a selection is made in a document served by the HTTP server.
- SPR# MAMR3N2HT3 - Fixed a crash of the HTTP server when trying to serve an applet from a Release 4.6x database.
- SPR# JCOS3K3L3Y - Prevent the HTTP server from hanging after a user selects a keyword that has more than 254 characters.
- SPR# JCHN3B4M7M - Fixed a problem such that, if a form used the "Stored form in document" option and the form included graphics or other $FILE elements, then a document created with that form design showed broken-link symbols when retrieved through the HTTP server. If the element was a file attachment or a graphic, then the link returned an error.
- SPR# MKEN3N5RZ7 - Extend the size of the referer field beyond 80 characters so that it is not truncated in the HTTP server log.
- SPR# RCON3JKU9T - Fixed a problem in which accessing a discussion database containing a document with more than 16 responses in a response hierarchy crashed the HTTP server and required the Domino server to be restarted.
- SPR# SMUN3PLPMK - Prevent a server crash on OS/2 when attempting to open certain databases through the HTTP server.
Notes and Domino Release 4.5.4a

New enhancements
This is the fix list for an interim Release 4.5.4a build and the Release 4.5.4a Hotfix.

All platforms

Client
- SPR# CYTN3RCS7J - Prevent a crash specifying invalid object handle when selection Create - Mail - Other from the workspace and mailfile menus. This problem was introduced in Release 4.5.4. However, it does not affect the Macintosh platform.

Server
- SPR# DWAS3Q2P5L - Fixed a crash in the Router when a document was larger than 64K.
- SPR# SCON3JDSKN - Allow mail routing to work correctly when a user's mail server is down and failover to a backup server has occurred. Previously the error, "Access to this server has been restricted due to excessive load," was returned to the user under certain conditions.
- SPR# RJAN3GDL3J - Prevent profile documents from being deleted during mailfile replication thereby resulting in their being replaced by the default profile.
- SPR# PMGL3QALAY - Prevent a clustered server from crashing after an error condition causes a failure to retrieve server availability information from a fellow cluster member.
- SPR# MZET3RETR4 - Prevent certain instances of database view corruption when many document deletions have occurred resulting in the error in the server log, "NIF: DETECTED STORAGE CORRUPTION ERROR."
- SPR# RHON3RENHP - Prevent a certain occurrence of the error message, "Insufficient Memory: Index Pool is Full," which occurs when many changes are made to groups in the Address Book.
- SPR# JKIK3MFRUH - Prevent the error, "The ID file is locked by another process. Try again later," from occurring under certain circumstances on busy servers. This problem will be addressed in its entirety in Release 4.5.5.

SMTP
- SPR# MBED3PVQ8B - Fixed a problem with the SMTP MTA crashing during nightly compaction or whenever a Quit was issued if tracing was enabled. This problem was introduced in Release 4.5.4.

Web Server
- SPR# DROO3QRJPU - Prevent an intermittent problem on the Windows NT HTTP server in which under heavy load a thread could time out and write data to an incorrect socket.
- SPR# SMAR3R7QVJ - Allow the HTTP server to respond correctly to requests from Netscape Navigator Version 4.04.
- SPR# CMUY3RBLUZ - Prevent a potential denial of service attack against the HTTP server.
UNIX only

Client
- SPR# RBUH33FUGS, RBUH3D4SNZ - Fixed a focus problem on UNIX clients, which resulted in mail memos being misdirected. This problem was also addressed in Release 4.6a.
- SPR# CODL3N5JYD - Fixed a memory leak on UNIX that occurred when a dialog box was updating the progress indicator.

Server
- SPR# PTHN3HNHU6, PRIA3HXG9D - Fixed multiple file descriptor problems on UNIX servers that resulted in crashes with various Panics reported stating "Detected that an osfd was already in the table," "Reused OS fd," and other such errors.
- SPR# BMIS3MFSGZ - Fixed a problem on Unix servers that occurred during heavy load in which users could not connect and the error messages, "MapOSStatusToNTIStatus status = 445" and "MapOSStatusToNTIStatus status = 257," would be written in the server log.

Client, Server

Notes and Domino Release 4.5.5
The Release 4.5.5 new enhancements included in the 4.6.x releases are as follows:

API
- SPR# PDOE3RMRUE - Fix a problem where the workstation crashed while clicking the Save and File button in the user's mailfile after editing a received message. [4.6.2,4.5.5]
- SPR# DANO3N2SDQ - Prevent the error, "Document has been modified or corrupted since signed! (data)," when documents in a mailfile are modified by a MAPI client. [4.6.2,4.5.5]
- SPR# ROZ3HZKLP - Provide support for the Options parameter in the API function, FTIndex. Previously this parameter was ignored. [4.6.2,4.5.5]
- SPR# DANO3PZM84 - Add API functions to support the Administration Process features: ADMINReqDeleteInNAB, ADMINReqDeleteInACL, ADMINReqChkAccessNewReplica, ADMINReqChkAccessMoveReplica, ADMINReqRename, ADMINReqRecertify, ADMINReqMoveUserInHier, and ADMINReqMoveComplete. [4.6.2,4.5.5]

Calendaring and Scheduling
- SPR # YXUU3RZCM5 - Fix a problem which causes Notes to crash when changing repeating meetings multiple times. [4.6.2,4.5.5]
- SPR# PMNY3RKNDR - Fix a problem which prevents users with accented characters in their names from being displayed properly in the Free Time database. [4.6.2,4.5.5]
- SPR# MLOT3MNK3C - Prevent the display of debug statements on UNIX systems when using the Find Free Time feature. [4.6.2,4.6.1a,4.5.5]
Client

- **SPR# EGAN38JJSQ** - Repaint documents correctly after an @function message box is displayed while the document is being loaded. [4.6.2,4.5.5]
- **SPR# ROZ3JRSAB** - Fix a problem which prevents database design replace and refresh from recognizing that an agent had been updated when it was signed. [4.6.2,4.5.5]
- **SPR# DHOE3JKLSJ** - Fix a problem which causes a Windows 95 client to crash when the Mail Tools submenu is selected and a new mail notification is received. [4.6.2,4.5.5]
- **SPR# SWT3K4FWG** - Allow the Notes client to shut down successfully even if we are unable to write to the DESKTOP.DSK (because it is on a fileserver which becomes unavailable). [4.6.2,4.5.5]
- **SPR# OUN3P2P6V** - When purging the CACHE.DSK file to conform to its disk space quota, consider all design elements including LotusScript libraries and navigators for remote databases. [4.6.2,4.5.5]
- **SPR# HII3RM33W** - Allow the Database Signing utility to be used on agents which are stored in R3.x format without subsequently producing the error, "Document has been modified or corrupted since signed! (data)," when being run. [4.6.2,4.5.5]
- **SPR# BSWN3S7KAN** - Support the NOTES.INI variable, InitialCacheQuota, which specifies the size of CACHE.DSK in kilobytes, e.g., InitialCacheQuota=1024 specifies a 1 megabyte file, instead of the default size of 5 megabytes. [4.6.2,4.5.5]
- **SPR# SMDN3S4TAB** - Search all Address Books when a recipient name in a mail memo is misspelled, so that a complete list of approximate matches is presented even if "Stop after first match" is set in the user's Location record. [4.6.2,4.5.5]
- **SPR# BMUY3J4QWL** - Provide a new NOTES.INI variable, DontPrintFTHighlights=1, to prevent the printing of the outline around words found during full-text search. [4.6.2,4.5.5]
- **SPR# MZET3RYSEF** - Prevent the error, "Object size cannot be zero," from occurring when forwarding a document with attachments when the attachments are of a particular size. [4.6.2,4.5.5]
- **SPR# MDLS3S2Q9D** - Fix a crash after reporting, "Paragraph or Field cannot be larger than 64K bytes," when selecting from certain large keyword fields. [4.6.2,4.5.5]
- **SPR# KISA3N6692** - Allow the user to always exchange unread marks during workstation replication by setting the NOTES.INI variable, REPLICATOR_SYNC_UNREAD, to -1. Please note that using this feature will result in severe performance degradation when replicating and that support for this NOTES.INI variable may be removed in future feature releases if this feature is enabled differently. [4.6.2,4.5.5]
- **SPR# MDLS3N4P5J** - Fix the formulas, @Month, @Day, @Hour, @Minute and @Weekday, to perform the evaluation with respect to the current timezone. [4.6.2,4.5.5]
- **SPR# KMAA3NC369** - Prevent the incorrect display of a view in the case where a user chooses to delete more than one document but does not have the access to delete all of them. The view has to be rebuilt to show that the documents are not really deleted. [4.6.2,4.5.5]
- **SPR# STN2ZJJ5L** - Allow the setting, "Show Context Icons," in File->Tools->SmartIcons to be persistent across Notes sessions. [4.6.2,4.5.5]
- **SPR# RGET3NYMLE** - Prevent users who do not have access to a database locally from being able to delete it if the "Enforce a consistent ACL" option is selected. [4.6.2,4.5.5]
- SPR# SMUN322PSN - On Windows 95 and Windows NT, adjust the operating system timezone as well as the operating system clock when a user selects a new timezone in the active Location document. [4.6.2,4.5.5]
- SPR# TBOT3SUUBZ - Prevent the Notes client from hanging when attempting to display bubble help for smarticons when using an application with child windows. [4.6.2,4.5.5]
- SPR# JKEY3J8QHQ - Correctly allow documents with a .WPD extension (as well as those with the .DOC extension) to be recognized by the WordPerfect 5.x importer. [4.6.2,4.5.5]
- SPR# JJOE36DPFX - Fix Navigators not to display scroll bars when the "Auto adjust at runtime" option is selected. [4.6.2,4.5.5]
- SPR# VPAA3F9NUL - Fix a problem that causes the NoteID tool to crash when examining deleted notes. [4.6.2,4.5.5]
- SPR# SCON3GZSUQ - Allow the newmail notification and type-ahead features to work on a clustered server during failover. [4.6.2,4.5.5]
- SPR# MOBN3SPVM3 - Prevent the incorrect display of the April calendar (date was off by one day) in all calendar controls in the International version. This problem was introduced in R4.5.4 and R4.6.1. [4.6.2,4.6.1a,4.5.5]
- SPR# MSWN3RKHSD - Fix a problem which prevents administrators from creating replica copies of databases using the Database Tools feature of the Administration Panel. This problem was introduced in R4.5.4 and R4.6.1. [4.6.2,4.6.1b,4.5.5]

LAN/WAN
- SPR# MGRS3QPEW6 - Allow Windows 3.1 clients to use Calendaring and Scheduling alarms over TCP/IP by changing the default timeout value from 20 to 30 seconds, and by adding a NOTES.INI setting (WKSDMN_WAIT_FOR_STARTUP_SEC) to control the timeout value for node installs. Previously the error, "The Notes Winsock Daemon _WSKDMN.EXE could not be loaded," appeared on slow connections. [4.6.2,4.5.5]
- SPR# GSPT3SESYF - Assign multiple COM ports to multi-threaded server processes instead of assigning the same one to all, causing all but one process to fail initially. [4.6.2,4.5.5]
- SPR# HWAI3NH72P - When connecting remotely, use the user's ID file to report the correct user name in the Phone Calls by User view of the Server Log, even if the ID file has been switched during the Notes session. [4.6.2,4.5.5]
- SPR# PHAN3S8V7Z - Fix a problem in the X.PC driver with the following error being reported in the Notes Log, "Bug in Pkt_st: State = 0, Event = 4." This fix is needed by both the client and the server software. [4.6.2,4.6.1b,4.5.5]

LS:DO
- SPR# SAUA3SBQUU - Fix a large performance degradation in table lookups in LS:DO that was introduced in R4.5.4 and R4.6.1. [4.6.2,4.6.1a,4.5.5]

Server
- SPR# KNIL3NQKBN - Fix a server crash that occurs when creating a full-text index using the Index Breaks option "Word, sentence, and paragraph." [4.6.2,4.5.5]
- SPR# KNIL3QFHLW - Fix a memory leak resulting in the error, "Unable to replicate: Maximum number of memory segments that Notes can support has been exceeded," and eventually requiring a server restart. This error occurred during selective folder replication when deletions were replicated. [4.6.2,4.5.5]
- SPR# KNIL3H9HS7 - Reduce the incidence of multiple updater processes, each logging Address Book view update events when only one update is actually taking place. [4.6.2,4.5.5]
- SPR# LMR3QCT8C - Fix a problem with the full-text indexing of a non-Rich Text field. It appears immediately before consecutive Rich Text fields when the first Rich Text field is empty. [4.6.2,4.5.5]
- SPR# THOY3S93MW - Provide support for partitioned servers when running Domino as a Windows NT service. Please see the Troubleshooting section of the Release Notes for caveats. [4.6.2,4.5.5]
- SPR# MSAN3JJP7R - Fix a memory leak and a major performance problem encountered when opening a folder that has the "Show response documents in a hierarchy" property selected. [4.6.2,4.5.5]
- SPR# MCA3SGQHM - Fix a problem that allows certain improper updates by the Replicator. [4.6.2,4.5.5]
- SPR# CRAO3PLJVM - NSFPool.Used and NIFPool.Used stats are now correctly displayed at the server console. [4.6.2,4.5.5]
- SPR# SSHE3JBMNH - Fix a problem with newly-enabled agents not being loaded successfully and reporting "File object is truncated - file may have been damaged." [4.6.2,4.5.5]
- SPR# GFLY3PSP7N - Fix a problem that prevents fields located between the first and last instance of a Rich Text field from being full-text indexed and thus unavailable to searches. [4.6.2,4.5.5]
- SPR# DWIN3SD3XQ - Prevent the Administration Process from crashing when processing two Rename or Delete in Reader/Author fields requests on the same name simultaneously. [4.6.2,4.5.5]
- SPR# MFOT3MNVC9 - Allow the Notes client to run to setup a Notes server on an OS/2 machine with 2 gigabytes of RAM. [4.6.2,4.5.5]
- SPR# RJAN3GDLD3J - Prevent profile documents from being deleted during mail file replication, resulting in their being replaced by the default profile. This problem was fixed in R4.6.1. In R4.6.2 another problem was fixed that caused database replicas to have profile documents replaced by the default profile. [4.6.2,4.5.5]
- SPR# MPEN3SAQPY - Fix a small memory leak in the NIFPool that occurs under certain error conditions. [4.6.2,4.5.5]
- SPR# CODL3M8JCA - Fix a server crash caused by the attempt to access the Master Address Book on another server when it is locked by another program, such as a backup utility. [4.6.2,4.5.5]
- SPR# ADIE3S3KPG - Prevent a server crash caused by the full-text indexer when someone attempts to search for a reserved word. This problem only happened in localized versions of Notes because the string of reserved words, such as AND, NEAR, or NOT, was being translated when it should not have been. [4.6.2,4.5.5]
- SPR# MOBN3SPTDV - Fix a problem with replication stopping and reporting, "Document has been deleted." [4.6.2,4.5.5]
- SPR# MZET3SVT52 - Fix an intermittent problem with the Collect task deleting some attachments and documents in the single-copy object store. [4.6.2,4.5.5]
- SPR# ADIE3MDL2R - Change the default MAIL.BOX database size to 4 gigabytes when it is created by the Router. [4.6.2,4.5.5]
- SPR# AWHR3TBSTV, JJAN3T3MEP - Fix a crash using ACLEnumEntries in an API program when examining a database ACL created with R3.x (or earlier releases) of Notes. [4.6.2,4.5.5]
- SPR# CCWG3QGBXC - Fix a problem in the calculation of the time zone for customers in time zones where the offset is anything but a whole number (for example, -3.5 hours for The Netherlands). This problem caused the Agent Manager to calculate the next scheduled time for agents incorrectly so that agents would run every minute. [4.6.2,4.5.5]
- SPR# JHOD3KGRKB - Always put the forwarding address into the Sendto field in a mail memo so that it is the same as the Recipients field, so that the Reply To All feature works in all cases. [4.6.2,4.5.5]
- SPR# SSHE3NJVSA - Fix a problem that causes NIF storage corruption errors in the ($ServerAccess) view of the Address Book. [4.6.2,4.6.1d,4.5.5]
- SPR# MZET3RETR4 - Fix another cause of database view corruptions in R4.5.5a and R4.6.2. The following fix (listed and described under the same SPR number) was included in R4.5.4a and R4.6.1: Prevent certain instances of database view corruption when many document deletions have occurred resulting in the error in the server log, "NIF: DETECTED STORAGE CORRUPTION ERROR." [4.5.5a,4.6.2]

**Template - Mailfile**

- SPR# PDOE3RMRUE - Fix a problem where the workstation crashes when a user clicks Save and File in the mailfile after editing an already-received message. [4.6.2,4.5.5]
- SPR# MHAC3NSMRN - Correctly deliver C&S invitations to two people with the same common name but different organizations or organizational units. [4.6.2,4.5.5]
- SPR# PMNY3R6JUV - Fix a problem with the sorting of the Task Assignments view when using dates in international formats. [4.6.2,4.5.5]
- SPR# BLEE3LCANB - Fix two problems with C&S: [4.6.2,4.5.5]:
  1. When accepting a reschedule notice with update participants, the updated participants are now copied into the main calendar entry.
  2. When using drag and drop on repeating meetings, users are now queried as to which instances they want to have the modification.
- SPR# CDOS3LLTAH - Prevent a one-day event on the day that Daylight Savings Time begins from becoming a two-day event (because there are only 23 hours in that day). [4.6.2,4.5.5]
- SPR# DMKA3FCQFD - Allow Delegation Assistants with the proper access to create mail memos and send and save them. [4.6.2,4.5.5]
- SPR# UCHO3M6PGT - Correctly add any updated meeting participants to the main calendar entry when a reschedule notice is accepted. [4.6.2,4.5.5]

**Web Server**

- SPR# MJAS3SHTVU - Fix a potential denial of service attack in the HTTP Server. [4.6.2,4.5.5]
- SPR# SMDN3PLM4W - Fix a problem which causes Web client authentications to fail if the user's Person record is in a secondary address book. This fix also improves performance when searching several address books during any authentication. [4.6.2,4.6.1a,4.5.5]
Client, Designer, Server

Notes and Domino Release 4.5.5a

Lotus Notes and Lotus Domino Release 4.5.5a
Quarterly Maintenance Update (QMU)

This notice is to inform you that there is a Quarterly Maintenance Update (QMU) for R4.5.5. The QMU is called R4.5.5a and contains eleven fixes. Below is the fix list for R4.5.5a. This copy of the list is public and can be distributed to customers. North American and International English Incremental Installers for R4.5.5 -> R4.5.5a are on Notes.net at http://www.notes.net/downqmr.nsf/DownloadFile. This QMU is applicable to all platforms for the R4.5 client and server.

All Platforms

Client
- SPR# JYUN3VHJS8 - Fix a problem with remote users being unable to access their server after one successful connection, receiving "Unable to find path to server." This problem was introduced in R4.5.5.
- SPR# JHOD3PGP28 - Prevent a hang when exiting Microsoft Word after doing a Send To Mail Recipient when using Notes as your mail system.

Server
- SPR# MGAN3U8NSP - Allow the same server name as the server specified in the Agent Schedule dialog to be specified in the Copy to Database Simple Action instead of requiring the use of "Local."
- SPR# MZET3RETR4 - Fix another cause of database view corruptions in R4.5.5a and R4.6.2. The following fix (listed and described under the same SPR number) was included in R4.5.4a and R4.6.1: Prevent certain instances of database view corruption when many document deletions have occurred resulting in the error in the server log, "NIF: DETECTED STORAGE CORRUPTION ERROR."
- SPR# SSHE3P5SXT - Provide the capability for system administrators with only Author access to the Address Book to modify certain fields which were previously restricted to Editors or above. This capability involves changing the design of the Address Book and is not recommended.

API
- SPR# DANO3LRRL3 - Allow MAPI clients to use internet mail addressing for recipients not listed in the Public Address Book when Domino is used as a MAPI service provider.
- SPR# DANO3MNRY3 - Fix a crash in MAPI clients who use Personal Folders as their default store when attempting to access the Domino Address Book.
UNIX Only

Client
- SPR# CSAO3QN4V4 - Correctly wordwrap strings of characters containing no spaces in messageboxes on Unix clients.

Server
- SPR# PRIA3TSLNL - Fix a problem with running out of file descriptors on Unix servers resulting in the server dropping active sessions or worse in a deadlock which requires a server reboot.
- SPR# SGOE3V3SGQ - Fix a crash on AIX servers when trying to connect to another server using the TCP/IP stack.
- SPR# BMIS3MFSGZ - Fixed a problem on Unix servers that occurred during heavy load in which users could not connect and the error message, "MapOSStatusToNTIStatus status = 445", would be written in the server log.

Client, Designer, Server

Notes and Domino Release 4.5.6

Lotus Notes and Lotus Domino Release 4.5.6
Quarterly Maintenance Release (QMR)

This is the sixth maintenance release of the R4.5x stream. It includes a simultaneous US ship of North American and International English versions for all R4.5.5 platforms. Below is the complete fix list for R4.5.6.

Notes and Domino Fix List
Please note that this list is more current than those in the 4.5.6 printed Release Notes and the online Release Notes found on the 4.5.6 CD. You will find in the list below, as well as the release notes, new information is now being included along with each SPR number and fix description. This new bracketed information indicates in which version the enhancement was first introduced. If the enhancement was first addressed in a Quarterly Maintenance Update (QMU), that will be specified, as well as the first scheduled Quarterly Maintenance Release (QMR) in which the enhancement was included. For example, a description specifying [4.6.2, 4.6.1a, 4.5.5] indicates the same issue effected both the 4.6x and 4.5x code streams and was subsequently corrected in both. Specifically in this example, the issue was first addressed in the 4.6.1a QMU of the 4.6x line and QMR 4.5.5 of the 4.5x line. It was also then corrected in the 4.6.2 QMR. Of course, once included, the enhancements carry forward into the subsequent maintenance releases of the same code stream.

API
- SPR# RSLF3LDMJK - Fix Item creation in NSFNoteComputeWithForm to correctly update the Reader and Author field flags. [4.5.6,4.6.2]
- SPR# CBMO3TRKAX - Fix a significant memory leak on Windows NT and Windows 95 systems which occurs when running an API program which calls NotesInit or NotesInitExtended and NotesTerm while another Notes process is running. [4.5.6,4.6.2]
- SPR# AWHR3RNT7Q - Prevent an application from hanging when calling VIMEnumerateMessages if a damaged document or a document to which the user doesn't have access is encountered. [4.5.6,4.6.2]
- SPR# JCAR3FPSXY - Increase the length of the Operating System Path to be searched for the NOTES.INI file from 512 characters to 768 characters. [4.5.6,4.6.2]
- SPR# BSTL3RZMEN - Prevent a leak of one file handle per call on Windows NT in the memory initialization package when called recursively which eventually leads to a shortage of file handles causing the process to crash. [4.5.6,4.6.2]
- SPR# DWIN3THJ93 - Fix ADMINReqDeleteInNAB to delete the Person document in the Address Book. [4.5.6]
- SPR# RBOO3FLHCT - Allow API programs proper access to stdin for password prompts, etc. [4.5.6]
- SPR# GÖR3PKD5M - Fix the Extension Manager callout, EM_GETPASSWORD, to work properly with multi-password ID files. [4.5.6,4.6.2]
- SPR# MYKG3VK97A - Fix a problem in IntlTextCompare which fails to match ASCII character strings in a multi-byte character environment. [4.5.6,4.6.2]

**API - MAPI**
- SPR# DANO3MNRY3 - Fix a crash in MAPI clients who use Personal Folders as their default store when attempting to access the Domino Address Book. [4.5.6,4.5.5a,4.6.2]
- SPR# DANO3LRRL3 - Allow MAPI clients to use Internet mail addressing for recipients not listed in the Public Address Book when Domino is used as a MAPI service provider. [4.5.6,4.5.5a]

**Calendar and Scheduling**
- SPR# KMAA3LDAZY - Correctly unbook the original room and/or time slot when a user manually changes the location and time of an entry in the Resource Reservation database so that the Freetime database is up-to-date. [4.5.6]

**Client**
- SPR# DGAU2NUTEX - Allow the user to Switch Forms when accessing a document via a doclink. [4.5.6]
- SPR# MROE3TRJQR, GSER3U7KJU, JSMH3SVMSN - Display the correct error message when the user does not have high enough access to see any views in a database, instead of showing the incorrect message, "Database is not fully initialized yet..." [4.5.6]
- SPR# DROS3L6NQA - Correctly show completed tasks which were assigned to you as a To Do in the Sent view instead of in the Drafts folder after they are marked completed and notification is sent back to the creator of the task. [4.5.6]
- SPR# SBRY3DJKN3 - Change the way the EditDocument method on the NotesUIWorkspace works when given a NotesDocument object as the second argument so that it works correctly in all cases. This problem was previously addressed in R4.6. [4.5.6]
- SPR# HOM3DQMLM - Fix a problem in the Agent Scheduling user interface to display the Start Time as hh:mm instead of just the hour. There was confusion previously because users thought that hourly agents could only be scheduled on the hour. [4.5.6]
- SPR# MYKG3L6CWE - Provide a workaround to a bug in Windows NT 4.0 which causes the error, "File does not exist," when attempting to attach multiple files from a directory whose name is in multi-byte characters. [4.5.6,4.6.1]
- SPR# KHE3SBUCUQ - Prevent the random display of 'garbage' characters in static text fields contained in layout regions. [4.5.6,4.6.2]
- SPR# ATAI3EN8UT, VPAA3BFQAN - Fix a crash which occurs when the user deletes documents from a database while using the Scan Unread or Scan Preferred dialog box. [4.5.6,4.6.2]
- SPR# CRAO3KUGVD - Fix a crash when pressing an action button which uses @Commands to toggle the appearance of the preview pane before and after ViewRefreshFields. [4.5.6,4.6.2]
- SPR# GSPT3C4JN9 - Correctly repaint the modem icon in the status bar when the Notes window is resized. [4.5.6,4.6.2]
- SPR# MTHD3NJVN8 - Display the correct information when the user selects the More Info button for a file whose filename is typed in the edit control (like mail.box) in File->Tools->Server Administration->Database Tools->Quotas on non-Unix platforms. [4.5.6,4.6.2]
- SPR# PSEO3PVVBC - Fix a crash when skipping databases while using the Scan for unread feature in User Preferences. [4.5.6,4.6.2]
- SPR# ATHS39ZTTY - Correctly change when the alarm goes off (from Before or After to On time or from On time to Before or After) for all instances of a repeating Calendar entry. [4.5.6,4.6.2]
- SPR# SCON3GZSUQ - Allow the newmail notification and type-ahead features to work on a clustered server during failover. [4.5.6,4.6.2]
- SPR# SYPK3Q336B - Prevent the truncation of long multi-byte character text strings when pasted from the clipboard into hotspots. This problem was introduced in R4.5.4 and R4.6.1. [4.5.6,4.6.2]
- SPR# CHRI3TBSGJ - Fix a crash when attempting to open a document link in the on-line Help database using the menu selection Link->Open Link. [4.5.6,4.6.2]
- SPR# JHOD3TKPW2 - Allow certain documents containing sections that were created with early R4.x versions to open instead of displaying the error, #0C:09. [4.5.6,4.6.2]
- SPR# ESKM3TTFEW - Fix a problem with Notes crashing or hanging if both single-byte and double-byte characters were entered in a keyword field. [4.5.6,4.6.2]
- SPR# MPEY3LRUM5 - Fix a problem that causes a failure when selecting only the first database listed in the Source Database list in File->Tools->Server Administration->Database Tools->Create a Replica. [4.5.6,4.6.2]
- SPR# JYUN3VHJS8 - Fix a problem with remote users being unable to access their server after one successful connection, receiving "Unable to find path to server." This problem was introduced in R4.5.5. [4.5.6,4.5.5a]
- SPR# JHOD3PGP28 - Prevent a hang while exiting Microsoft Word after doing a Send To Mail Recipient when using Notes as your mail system. [4.5.6,4.5.5a,4.6.2]
- SPR# MSCE3B8RE3 - Fix a resource leak when editing a form containing a time control field contained in a layout region, eventually resulting in the error message, "Unable to create action bar." [4.5.6,4.6.2]
- SPR# JYUN3VHJS8 - Fix a problem with remote users being unable to access their server after one successful connection, receiving "Unable to find path to server." This problem was introduced in R4.5.5. [4.5.6,4.5.5a]
- SPR# SVRO3K3SYH - Truncate auto-generated section field names to a reasonable length in order to prevent various workstation crashes. [4.5.6]
- SPR# JKAH3WFUJ3 - Change the parsing of the database name in various LotusScript and Java methods. [4.5.6,4.6.2]
- SPR# RSNR2WHKHV - Mask the password in the Call Server dialog box when connecting via Remote LAN Access. [4.5.6]
Client - Macintosh only
- SPR# RGET3UWLST - Prevent the Macintosh client from crashing when using the shortcut keys for Find/Replace and Find Next while an infobox is being displayed. This problem was introduced in R4.5.5. [4.5.6]
- SPR# GVEZ3QXUC9 - Allow calendar printing on the Macintosh between specific dates by enabling the "Print selected days" option on the Print dialog. [4.5.6]
- SPR# ECAR3QFNLD - Change the help text in the Custom Install for the Macintosh to be accurate. [4.5.6]

Client - OS/2 only
- SPR# KHUG3PSU9G - Prevent the OS/2 client from crashing when receiving a mail message with a certain special character in the Subject field. [4.5.6]
- SPR# JSAE3SUJKPM - Fix a problem on the OS/2 client where dialog accelerator keys are being ignored in dialog boxes containing layout regions. [4.5.6]

Client - UNIX only
- SPR# CSAO3QN4V4 - Correctly wordwrap strings of characters containing no spaces in messageboxes on UNIX clients. [4.5.6,4.5.5a,4.6.2]
- SPR# RBUH3827CX - Disable the Properties and Fields dialog entries when using the NoteID Database Tool in File->Tools->Server Administration until a valid note is displayed; this prevents a hang in UNIX. [4.5.6,4.6.2]
- SPR# SCTN3RM2VP - Provide the same Collation/Casing options for International English kits on Unix as on the PC platforms. [4.5.6,4.6.2]

Install
- SPR# RKAY3M3TKM - Correctly load the Notes Performance Monitor counters when installing the server. [4.5.6]
- SPR# KGAR3TXHUJ - Allow install to work properly on AIX machines on which the locale settings are changed. [4.5.6,4.6.2]

LAN/WAN
- SPR# GSPT3T4LQN - Prevent excessive recursion in computing a path to a server if a Passthru Server Connection record used an asterisk for the destination server. [4.5.6,4.6.2]
- SPR# GSPT3J6LYQ - Fix a problem with RAS connections not being hung up consistently after workstation replication. [4.5.6,4.6.2]
LotusNotes
- SPR# KHUG3P7NEC - Fix access problem to "Private on first use views", which also caused a crash when the view was inspected using the LotusScript debugger. [4.5.6,4.6.2]
- SPR# JCP3T1AUWA - Prevent crashes caused by using the RemoveItem method on a NotesDocument on a duplicate item (which can only be created using LotusScript). [4.5.6,4.6.2]
- SPR# KHKP3TTHVA - Fix a problem with not being granted appropriate access to a local replica of a server-based database on which "Enforce consistent Access Control List..." is selected when access is obtained via membership in a group in the Public Address Book. This feature was temporarily disabled when the database was created using the LotusScript method, CreateReplica, on a NotesDatabase in R4.6.1. [4.5.6,4.6.2]

LS:DO
- SPR# DMAN3MDR - Modify time conversion routine to resolve reported problem. [4.5.6,4.6.2]
- SPR# MPAA3NPUDF - Change in product build procedure caused internal LS:DO problem. This error has been resolved. [4.5.6,4.6.2]
- SPR# DMAN3NHNN2 - Make Single and Currency available as FieldExpectedDataType options. [4.6.2,4.5.6]
- SPR# JIN3PZACT - Modify ExecProcedure method to allow more than 30 parameters. [4.5.5,4.5.6,4.6.2]
- SPR# RSHI3NK96H - Enable LS:DO to update a row by rowid in databases that support rowid. [4.5.6,4.6.2]
- SPR# BLUU3SYMDS - Fix workstation crash which produces the error "memory following pool block has been destroyed" resulting from LS:DO agent using UseRowID. [4.5.6,4.6.2]
- SPR# WEL3M9H43, BLUU3S2KPT - Fix problems with LS:DO initialization routines which previously resulted in HTTP server hangs after repeated execution of an LS:DO server agent. [4.5.6,4.6.2]
- SPR# BLUU3UBPT8 - Modify HasRowChanged method to return correct value. [4.5.6,4.6.2]
- SPR# BLUU3UBLRG - Modify LS:DO so that SQL_REAL is registered as valid constant. [4.5.6,4.6.2]
- SPR# BLUU3UET28 - Modify ODBCResultSet class to recognize previous errors. [4.5.6,4.6.2]
- SPR# BLUU3TZKBJ - Modify GetRowStatus to return a correct value. [4.5.6,4.6.2]
- SPR# BLUU3TUKEB - Fix a problem where table aliases are not recognized. [4.5.6,4.6.2]
- SPR# BLUU3SYM2D - Fix a problem where UseRowID returns incorrect value for computed columns. [4.5.6,4.6.2]
Server

- **SPR# PNGG3V9PY4** - Prevent the possibility of a server task crashing during server shutdown with the message, "PANIC: Object handle is invalid." [4.5.6]
- **SPR# DWIN3VN57C** - Prevent the Admin process from crashing when processing a Delete Person request and choosing to delete the mailfile if the sum total of the characters in the ACL of the Manager entry of the mailfile exceeds 256 characters. [4.5.6]
- **SPR# SSHE3UWSJB** - Prevent debug messages referring to (Mail_InLookup) from appearing on the server console when the Stats agent starts. [4.5.6]
- **SPR# GCAR3VLKU9** - Fix a problem with the Collector task incorrectly categorizing a server that doesn't respond. This problem was previously addressed in R4.6, as well. [4.5.6]
- **SPR# GFLY3VHPN8** - Fix a problem with certain attachments being only partially indexed. [4.5.6]
- **SPR# SCHN3U2EAB** - Fix a problem with the incomplete full-text indexing of attachments. This problem was introduced in R4.5.5 and R4.6.1. [4.5.6,4.6.1]
- **SPR# SCON3HYS9Z** - Fix the Admin Program to delete any Program documents from the Address Book which contain a deleted server in the "Server to run on" field. [4.5.6]
- **SPR# SMUN3VCOHZ** - Prevent debug messages referring to (Mail_InLookup) from appearing on the server console when the Stats agent starts. [4.5.6]
- **SPR# JPAI3V53GZ** - Fix a potential crash when multiple threads (from the same process) are doing network initialization simultaneously. (This problem would probably occur more often on fast SMP systems). [4.5.6,4.6.2]
- **SPR# BDRR3S2STH** - The Admin process now updates the Busytime database and Appointment documents for which the person is the Chair correctly when a person's name changes [4.5.6,4.6.2]
- **SPR# JPII3HWKJE** - Prevent error messages in logs of clustered servers reporting an inability to replicate xxx.TMP files. This problem was partially fixed in previous releases. [4.5.6,4.6.2]
- **SPR# MSAN3TDLRF** - Prevent various server crashes caused by agents accessing profile documents. These crashes were more likely when DominoAsyncronizeAgents was enabled to allow multiple agents to run simultaneously. [4.5.6,4.6.2]
- **SPR# DQUY3T82YC** - Fix a problem with the encryption settings not being passed on and encryption not being carried out when database replicas are made of encrypted databases while "Do not send changes in local security property" is deselected in Advanced Settings. [4.5.6,4.6.2]
- **SPR# DKEY3U8SBJ** - Prevent a potential view indexer hang when the Updall and Update tasks attempt to access the same database simultaneously. This problem would also previously cause the server to hang on shutdown. [4.5.6,4.6.2]
- **SPR# GCAR3RZS89** - Fix a problem with collecting numeric statistics from remote servers when running translated versions of Domino. [4.5.6, 4.6.2]
- **SPR# STE3N4DTD** - Restore the feature which creates response documents showing the Approval or Disapproval action for deleting mail files in the Administration Requests database. [4.5.6,4.6.1]
- **SPR# SSHE3P5SXT** - Provide the capability for system administrators with only Author access to the Address Book to modify certain fields which were previously restricted to Editors or above. This capability involves changing the design of the Address Book and is not recommended. [4.5.6,4.6.2,4.6.1c]
- SPR# MGAN3U8NSP - Allow the same server name as the server specified in the Agent Schedule dialog to be specified in the Copy to Database simple action instead of requiring the use of "Local." [4.5.6,4.5.5a,4.6.2,4.6.1d]

- SPR# KWHR3JZTN4 - Correctly refresh the group cache on the server when the Members field of a Group document is changed so that additions and deletions to the Group are recognized immediately. [4.5.6.4.6.2]

- SPR# PTHN3RJL62 - Fix a server crash on Solaris with the message, "PANIC: Cannot attach to shared memory region, due to insufficient access," resulting from a memory leak when attempting to connect to a remote server which is not responding. [4.5.4.6.1]

- SPR# SVRO3N2P7Q - Allow the user to open a mail database which is over its quota as a result of the Router continuing to deposit mail so that mail can be deleted. This fix is currently implemented on Windows NT servers only. [4.5.6,4.6.2]

- SPR# MGAN3U8NSP - Allow the same server name as the server specified in the Agent Schedule dialog to be specified in the Copy to Database Simple Action instead of requiring the use of "Local." [4.5.6,4.5.5a,4.6.1d,4.6.2]

- SPR# LENL3UWJNR, MBOD3V4LK6 - Fix a problem with the Admin process so that when a user's name is changed, the Freetime database is updated correctly. [4.5.6,4.6.2]

- SPR# TEDS3UGP4R - Fix a problem with the Compact process removing a delegate's access to the Calendar view of a mailfile. [4.5.6,4.6.2]

Server - NT Alpha only
- SPR# GPFM3VCLL9 - Prevent excessive Alignment Fixups when building views which degrades performance. [4.5.6,4.6.2]

- SPR# LVAO3UHHNA - Fix a problem which causes floating point exceptions to happen when building certain views. [4.5.6,4.6.2]

Server - OS/2 only
- SPR# BMKE3A8JQE - Fix a crash on OS/2 servers specifying "PANIC: Insufficient semaphores to handle number of concurrent owned critical reg." [4.5.6,4.6.2]

Server - UNIX only
- SPR# CSAO3MG3AB - When specifying DateOrder=YMD in the notes.ini on UNIX, prevent the time format from changing from 24 to 12 hour. [4.5.6]

- SPR# MDOR3TQNRH - Remove the setup of default SIGUSR1 handler on UNIX servers because its use prevents API applications that use Java from working. This problem was already addressed in R4.6. [4.5.6]

- SPR# PRIA3TSLNL - Fix a problem with running out of file descriptors on UNIX servers resulting in the server dropping active sessions, or, in a deadlock which requires a server reboot. [4.5.6,4.6.2]

- SPR# DOE3TLFPJ - Fix a file descriptor leak on AIX which occurs when opening read-only databases. [4.5.6,4.6.2]

- SPR# SGOE3V3SGQ - Fix a crash on AIX servers when trying to connect to another server using the TCP/IP stack. [4.5.6,4.5.5a,4.6.2]
- SPR# JJAN3U9QAP, JJAN3UUMFN - Prevent intermittent hangs in the HTTP server and Domino server on UNIX. [4.5.6,4.6.2]
- SPR# SGOE3WNN6P - Prevent another instance of UNIX servers crashing and reporting "PANIC: List Entry count in TEXT_LIST is invalid." [4.5.6]

Templates
- SPR# HAY3UPHFE - Increase the width of columns that display dates in various templates to accommodate four digits in the year. [4.5.6,4.6.2]

Template - Mailfile
- SPR# DROS3MMRCL - Display the correct timezone for the sender of a mail message from the Internet when viewing the message in the Preview pane. [4.5.6]
- SPR# RHAR3PKL25 - Prevent the OutOfOffice agent in the mail template from producing errors when the OS/2 setting for the time and date separator is a dot. [4.5.6]
- SPR# VPAA3GGJ6B - Prevent the incorrect display of fields in the Set Alarm dialog box when changing a Calendar entry from Event to Appointment, etc. [4.5.6]
- SPR# POR3SPGSS - Allow mail delegation assistants to create Serial Route Memos in the delegated mailfile. [4.5.6,4.6.2]
- SPR# RMAS3NHK2C - Fix a problem with resaving a Calendar entry removing the default alarm enablement. [4.5.6,4.6.2]
- SPR# UCHO3M6PGT - Correctly add any updated meeting participants to the main calendar entry when a reschedule notice is accepted. [4.5.6,4.6.2]
- SPR# MZET3QGMDY - Prevent the Autoprocessing agent for Calendar entries from processing signed messages, since the signature of the message would no longer match and users therefore received error messages. [4.5.6]
- SPR# MALZ3L7K4L - Converting a mail message to a task no longer displays the sender as the assignee. [4.5.6]
- SPR# RJAN3WCMC2 - Correctly update the $Busytime item in a Calendar entry when it is cut and pasted from one person's Calendar to another. [4.5.6]
- SPR# JHOD3H9MNT - Fix a problem with the SENDTO field being truncated after 256 characters when resending a delivery failure. Now all users will be included. [4.5.6]
- SPR# MYAG3RSU6T - Fix a problem which occurs when rescheduling a meeting and not including any new invitees. Previously, if the Chair typed the names of the invitees in the SendTo field (although not required), many error messages were displayed and two Reschedule Notices were sent to each invitee. Now only one error message is displayed and only one Reschedule Notice is sent. [4.5.6]

Template - Personal Journal
- SPR# DMAS3RKRYB - Fix a problem with full-text search by form in the Personal Journal database. [4.5.6,4.6.2]
Template - Resource Reservations

- SPR# JCRE3DFPN - Fix a problem with the incorrect handling of the time separator in date fields when it is a "," as it is on OS/2 in Europe. [4.5.6]
- SPR# EFID3U6N7P - Fix the views in the Resource Reservations database to show the accurate time that resources are reserved so that the information coincides with the information in the Freetime database. [4.5.6]

Viewers

- SPR# PLAE3PNQ44 - Allow headers and footers to display and print in the WordPro viewer. [4.5.6,4.6.2]
- SPR# PLAE3RDM9P - UNIX only: Improve display of spreadsheet tabs on Sparc systems. Previously the tabs were 'clipped' and therefore difficult to read. [4.5.6]
- SPR# PLAE3PNPZU - Make borders display correctly in the WordPro 96 viewer. [4.5.6,4.6.2]
- SPR# PLAE3HQP48 - Correct Univers 36-point font distortion that occurs in viewer. [4.6.2,4.5.6]
- SPR# PLAE3HQRC8 - Correct display in WordPro viewer so lines are not clipped. [4.6.2,4.5.6]
- SPR# PLAE3TNTA9 - Add support for the new Euro currency symbol in the Notes viewers. [4.6.2,4.5.6]
- SPR# PLAE3PNR87 - Correct display so data is not clipped in last column when using WordPro viewer. [4.5.6,4.6.2]
- SPR# PLAE3PNPLX - Make bullets display correctly in the WordPro 96 viewer. [4.5.6,4.6.2]
- SPR# PLAE3NHQTA - Make the General formatting value appear correctly when using international settings. [4.5.6,4.6.2]
- SPR# PLAE3RDMUS - UNIX: Sparc -> Correct a problem where overlapping text is displayed using the Word viewer. [4.5.6,4.6.2]
- SPR# PLAE3RDMHD - UNIX: Allow ESC key to exit the viewer window once you have navigated through a file (on Sparc platforms). [4.5.6,4.6.2]
- SPR# PLAE3RDMCJ - UNIX: Make .WK4 charts able to display on all pages in the viewer on Sparc. [4.5.6,4.6.2]
- SPR# MHAC3KRPX9 - Make 1-2-3 line chart line elements display properly in the viewer. [4.5.6,4.6.2]
- SPR# PLAE3P6P4J - Make bullets display in WordPro viewer. [4.5.6,4.6.2]
- SPR# PLAE3TCHWT - Update NOTES.INI to reflect new WordPro version numbers. [4.5.6,4.6.2]
- SPR# PLAE3PNQRD - Correct issue with vertical lines missing on page in WordPro viewer. [4.5.6]
- SPR# PLAE3HQRE4 - WordPro viewer: Correct font change issue that happens for no readily apparent reason. [4.5.6,4.6.2]
- SPR# PLAE3RDKEN - UNIX: Prevent hang on Sparc when trying to view an .XLS bar chart. [4.5.6,4.6.2]
- SPR# PLAE3RDPLQ - UNIX: Correct issue on Sparc where trying to view .MDB files hangs the system. [4.5.6,4.6.2]
- SPR# PLAE3PNQPH, PLAE3HQR4R - Correct issue where graphics do not appear in the
  WordPro viewer. [4.5.6,4.6.2]
- SPR# PLAE3UPJRF - Add a viewer for Lotus 1-2-3 files with a .WK1 extension. [4.5.6,4.6.2]

Web Server
- SPR# DCUM3VZNPM - Address the theoretical cryptographic flaw in the SSL protocol recently
  publicized by RSA Data Security. [4.5.6,4.6.2]
- SPR# JCHN3SVP3F - Prevent agent corruption caused by a user with insufficient access rights
  attempting to edit and save an agent. Previous to fix, this corruption resulted in the Web Server
  returning, "Error 500: Invalid or nonexistent document," until a person with sufficient access
  resaved the agent. [4.6.2,4.5.6]
- SPR# HAY4KJJQM - Fix a problem with HTML translation by the HTTP Server after the year
  2024. [4.6.2,4.5.6]
- SPR# RCHR3DAJYT - Correctly report an error when a Web user enters the incorrect type of
  data into a number field, instead of truncating the data and accepting it. [4.5.6,4.6.1]
- SPR# KGIS3TBQHJ - Fix a potential denial of service attack in the HTTP Server. [4.5.6,4.6.1B,4.6.2]
- SPR# DSCZ3U8JAY - Fix the display of the Euro currency symbol in Web applications. [4.5.6,4.6.2]
- SPR# JDEY3SZMV4 - Fix the format of outgoing HTTP date formats to comply with RFC 1123
  instead of RFC 850 and use four-digit dates. [4.5.6]
- SPR# KGIS3TUQ6P - Fix a crash of the HTTP server caused by a memory overwrite when a
  CGI program does not send a "\n" character within the first 4K of output. [4.5.6,4.6.2]

cc:Mail MTA and Upgrade Tools
To ease the upgrade from cc:Mail to Notes, we have included the cc:Mail MTA and upgrade tools in the
APPS directory of the Notes & Domino CD. Please refer to the "Things you need to know" section of the
release notes for more information

Client, Designer, Server
Notes and Domino Release 4.5.6a

Lotus Notes and Lotus Domino Release 4.5.6a
Quarterly Maintenance Update (QMU)
This notice is to inform you that there is a Quarterly Maintenance Update (QMU) to R4.5.6. The QMU is
called R4.5.6a and contains ten fixes. Below is the fix list for R4.5.6a. This QMU is applicable to all
platforms for the R4.5 client and server.

All Platforms

Client
- SPR# HHEY3WFNHY - Allow document and database links to fail over appropriately when a
  clustered server is busy. [4.5.6a]
Server
- SPR# RMAS3YBNJT - Fix a security problem with the use of the SHELL command in LotusScript agents. [4.5.6a]
- SPR# JPAI3VCRD5 - Fix a server crash (PANIC: LookupHandle: null handle) when updating full-text indexes due to incorrect memory re-initialization during a retry. [4.5.6a]
- SPR# KNIL3XRSXB - Prevent another instance of Unix and Windows NT Alpha servers crashing and reporting "PANIC: List Entry count in TEXT_LIST is invalid." [4.5.6a]
- SPR# DAJR3Z3S4B - Prevent a server hang caused by all processes being locked out of the Address Book for extended periods of time while a user's unread marks were being updated. [4.5.6a]

Client and Server
- SPR# SVRO3WLQ3Y - Prevent replication conflicts caused by the update of all field level sequence numbers to the sequence number of the document when a document is added to a given database replica. Field level sequence numbers should only be changed when the field itself changes. [4.5.6a]
- SPR# SVRO3WLQA4 - Prevent replication conflicts caused by incrementing field level sequence numbers incorrectly during a replication conflict merge. [4.5.6a]

Unix only

Server
- SPR# KBRN3YVMVN - Provide a significant increase in performance on Domino servers running AIX. [4.5.6a]
- SPR# DAJR3Z3PL6 - Fix a server crash or server hang on AIX which occurred after the error, "MapOSStatusToNTIStatus status = 482," starts to appear on the server console. [4.5.6a]

Windows 95/NT only

Install
- SPR# PMGL3RTUUD - Fix a problem with install failing on Windows NT, Windows 95, and Windows NT Alpha systems with a version of COMCTL32.DLL in the Windows directory with a date and time of 11/17/97 and 4:28 PM. This DLL is installed by other application programs such as Internet Explorer. [4.5.6a]
Notes and Domino Release 4.5.7

Lotus Notes and Lotus Domino Release 4.5.7
Quarterly Maintenance Release (QMR)

The Notes and Domino Product Team is pleased to announce that Release 4.5.7 began shipping on 2/04/99. R4.5.7 is the seventh and last scheduled maintenance release of the R4.5x stream. See below for more details. It includes a simultaneous US ship of North American and International English versions for all R4.5.7 platforms. The R4.5.6a -> R4.5.7 Incremental Installers are currently posted on http://www.notes.net/qmrdwn.nsf/QMRWelcome. Below is a partial fix list for R4.5.7.

Release 4.5.7 ends maintenance releases for R4.5x:
Release 4.5.7 of Notes and Domino is the last scheduled Quarterly Maintenance Release (QMR) for the R4.5x code stream. Fixes for critical bugs affecting our customers who have OS/2 and Macintosh clients and cannot, therefore, upgrade to R4.6x will be provided in the form of unscheduled Quarterly Maintenance Updates (QMUs). Since R4.5.7 of Notes and Domino is Year 2000 (Y2K) Ready, we will also provide necessary date-related fixes through January 31, 2001, in accordance with IBM's Year 2000 Service Policy.

Telephone support for the use of the R4.5 product will continue for a period of at least one year, in accordance with the current Notes Support policy. A definitive announcement for the end of support will be found in Lotus Notes Support's Knowledge Base at a future date.

Notes and Domino New Certifications and Platform Support:

  WorkSpace On-Demand certified for Notes client
Beginning in R4.5.6, and continuing with R4.5.7, IBM's WorkSpace On-Demand is a certified platform for the Lotus Notes OS/2 client. Please refer to the Certifications and Requirements chapter of the Things you need to know section of the Release Notes for additional details about the certification.

  IBM AIX 4.3.1 certified for Domino server
Beginning with Release 4.5.6a, and continuing with R4.5.7, the Lotus Domino Server for IBM AIX 4.3.1 is now a certified platform. The administration client is also certified on AIX 4.3.1. Please note that the Notes Client for AIX 4.3.1 is not certified but it continues to be supported. Please refer to the Certifications and Requirements chapter of the Things you need to know section of the Release Notes for additional details about the certification.

  Windows 98 supported by Notes client
Although not certified, Microsoft Windows 98 is a supported operating system for the Notes R4.5.7 client. This means Windows 98 has not undergone the Lotus test suite to be declared "certified", but it has been used extensively in the Lotus QE and production environments. No significant problems were encountered that were specific to running Notes in the Windows 98 environment.
Notes and Domino R4.5.7 partial fix list (as of 2/04/99):

**Note:** There is a fix in the area of Templates that provides upward compatibility to Release 5 (R5) of Notes and Domino.

### API
- **SPR# VROZ3YKJYA** - Fix a problem which prevents deleted documents from being removed from folders (via the API or LotusScript). This problem was introduced in R4.6.2 and in R4.5.5. [4.5.7,4.6.3,4.6.2b]
- **SPR# MSAN3WVRUV** - Prevent a Unix server hang on shutdown caused by running any API program due to a problem in the Notes SDK. [4.5.7,4.6.3]
- **SPR# RBOO3D7N7U** - Correct the Extension Manager callout arguments for NSFDbSpaceUsage, NSFNoteOpenByUNID, and NSFDbFreeObject. [4.5.7]
- **SPR# MDOR3YYMTF** - Fix a crash in CompoundTextAddRenderedNote when processing empty Keyword fields with a checkbox or radio button interface. [4.5.6,4.6.2b,4.6.3]
- **SPR# JCDS3PCKRQ** - Correctly replicate documents contained in private folders when using ReplicateWithServerExt. [4.5.7,4.6.3]
- **SPR# DSCR3VCRJW** - Remove the flag FIND_NONCATEGORY_ONLY from the SDK, as it is unexposed in every other release. [4.5.7]

### API - MAPI
- **SPR# GFLY3X2FNH** - Fix a crash of a MAPI client when the Notes MAPI profile specifies an Address Book to be used for checking user names that is different from the default Address Book. [4.5.7]
- **SPR# PVIA3WKKB7T** - Support long filenames for attachments using a MAPI client. [4.5.7,4.6.3]
- **SPR# JHOD3X2MRF** - Fix a problem with a Microsoft Outlook inbox failing to display all Notes mail. [4.5.7,4.6.3]
- **SPR# PSEO3W7SENG** - Fix a problem in which the Address dialog on a MAPI client shows entries from the Public Address Book when the Personal Address Book is specified. [4.5.7,4.6.3]

### Calendaring and Scheduling
- **SPR# KPEY3PFN6L** - Provide the capability for freetime lookup to access groups with alias names. [4.5.7]

### Client
- **SPR# WEVT3VPP9R** - Fix redraw problems in a view opened from the Portfolio database which causes other databases listed in the Portfolio database to disappear or become unable to be selected. Note that there are still problems in the Portfolio database on the AIX platform which are under investigation. [4.5.7,4.6.2a,4.6.3]
- **SPR# MCON3XZQHZ** - Fix a memory overwrite problem when accessing User Activity from the database Properties infobox. [4.5.7,4.6.3]
- **SPR# APAI3TTQ8T** - Fix a problem with users being prompted for the password of the ID file specified in the first Location document in the Location list when editing or switching locations if “User ID to switch to:” is specified. [4.5.7,4.6.3]
- **SPR# CHRI3SR2MB** - Fix two workstation crashes, one when opening a Help document using a desktop shortcut and then clicking on a doclink, and the other when using the launch URL feature on a document and then returning focus to Notes and pressing Enter. [4.5.7,4.6.3]
- SPR# JHMN3UU4PM - Handle a mixture of multi-byte and single-byte characters when there are a total of more than 15 bytes in a role name in the ACL dialog. [4.5.7,4.6.3]
- SPR# VLN3CAHVQ, HCUS3YEKCY - Fix various problems (including a crash) caused by a user with a compound name, e.g., a name with a hyphen, using Named Styles. [4.5.7]
- SPR# VLN3NHDF9 - Fix a problem with a Return Receipt being sent when a mail delegate reads a memo. Since the delegate is unable to update the document to prevent it, another return receipt is sent by the actual user. [4.5.7]
- SPR# CRAO3NHiM67 - Prevent all documents from being marked as read when one is actually only marking one document as read after an automatic logoff (or the use of the F5 key to log off). [4.5.7]
- SPR# PMNY3NBEWC - Cross through each line of a multi-line calendar entry when deleting it. [4.5.7]
- SPR# CRAO3NZR7P - Fix a severe performance degradation when a database has been set up to use the Preview pane on the right side of the screen. [4.5.7]
- SPR# SYPK3QRBFR - Increase the size of the Paste button in the LotusScript Language pane to accommodate Korean fonts. [4.5.7]
- SPR# RSCZ3CHMSK - Fix problems with the incorrect behavior of computed for display fields with hide when formulas. [4.5.7]
- SPR# CDOS3YSS9A - Prevent OLE objects from becoming unusable when edited due to the creation of multiple $FILEs with the same name. [4.5.7]
- SPR# DGAU2NUTEX - Allow the user to Switch Forms when accessing a document via a doclink. [4.5.7]

**Client - MAC only**
- SPR# EKEN3M9RMQ - Recognize locations specified in the Macintosh Location Manager in Notes and map locations appropriately between the two. Although this problem was supposed to be fixed in R4.5.5, the fix was not implemented then. [4.5.7]

**Install**
- SPR# PMGL3RtuUD - Fix a problem with install failing on Windows NT, Windows 95, and Windows NT Alpha systems with a version of COMCTL32.DLL in the Windows directory with a date and time of 11/17/97 and 4:28 PM. This DLL is installed by other application programs such as Internet Explorer. [4.5.7,4.6.3]

**LotusScript**
- SPR# PBIT3UTEJA - Prevent an error when using LotusScript to launch an Excel OLE object with a French or German locale set. [4.5.7,4.6.3]
- SPR# ACY3KWC7T - Prevent the incorrect addition of the time and timezone information to a NotesDateTime object set to DateOnly (in LotusScript and Java) when adding a day on the day that daylight savings takes effect. [4.5.7,4.6.3]
- SPR# BWEK3MLKB6 - Correctly save the PostedDate item when using the Send method on a NotesDocument and saving it. [4.5.7,4.6.3]
- SPR# NYOA3XXADP, JHYI3YMEQ5 - Fix a crash caused by string manipulation using LotusScript in a multi-byte characters environment. [4.5.7,4.6.3]
- SPR# VMAA3BPPAA - Prevent the reporting of multiple error messages when compiling recursive script libraries, eventually resulting in a crash due to a stack overwrite. [4.5.7]
- SPR# JCOR3XZRNQ - Prevent a crash when running LotusScript and choosing to abort an Execution Control List warning dialog which interrupted the script execution. [4.5.7]

**LS:DO**
- SPR# PJAN3ZEKSY - Fix a problem with a hang caused by processing data from table columns that have special, non-alphanumeric characters in the column name. [4.5.7,4.6.2b,4.6.3]

**Server - OS/2 only**
- SPR# PSEO3ZWWTWQ - Fix a problem with stack overruns leading to crashes on the OS/2 server. [4.5.7,4.6.3]

**Server - UNIX only**
- SPR# KBRN3YVMVN - Provide a significant increase in performance on Domino servers running AIX. [4.5.7,4.5.6a]
- SPR# EBEL3V9M4D - Fix a performance problem on the AIX server. [4.5.7,4.6.2]
- SPR# DAJR3Z3PL6 - Fix a server crash or server hang on AIX which occurs after the error, "MapOSStatusToNTIStatus status = 482," starts to appear on the server console. [4.5.7,4.5.6a]
- SPR# JPIU3SAC57 - Fix a problem in which the Reporter put incorrect threshold values in alarm documents. This problem was introduced in R4.5.4. [4.5.7]
- SPR# DJD3MVAWM - Properly expand or do not expand groups when using agents to send mail. [4.5.7]

**Server**
- SPR# TNIT3XAPBX - Fix a problem with the Router delivering mail to a user whose name is the same as another user in the Address Book instead of reporting the name as ambiguous. [4.5.7,4.6.3]
- SPR# JHOD3X3TWQ - Fix a problem in which folders and views with the same name were not allowed to coexist when the Design task ran, causing the view to be deleted. One particular example of this problem was in a mailfile, when a user named a folder "Calendar," the Design task would delete the "($Calendar)" view. [4.5.7,4.6.3]
- SPR# DWIN3YKMNX - Prevent the Admin process from crashing when checking a Reader/Author text field if the contents of the field exceed 256 characters. [4.5.7,4.6.3]
- SPR# TBOT3YRNYF - Fix a problem which causes agents triggered by New or Modified Documents to stop executing (after the server was running for several days) until the Agent Manager is restarted. [4.5.7,4.6.3]
- SPR# RMAS3YBNJT - Fix a security problem with the use of the SHELL command in LotusScript agents. [4.5.7]
- SPR# DWIN3Z3RWX - Fix a problem with the Admin Process not updating database ACLs while performing a "Rename Person in ACL" request. [4.5.7,4.6.3]
- SPR# DCZI3NCSR4 - Prevent the seeming damage of views by users attempting to perform actions for which they are not authorized. For instance, if a database Author attempted to delete a view, other users in the same view would get error messages even though the Author was told s/he was not allowed to delete the view. No damage was actually done to the view, but the error messages would force the other users to re-open or rebuild the view before continuing. [4.5.7,4.6.3]
- SPR# CWAR3W6NNE - Fix a problem with the MAILDISABLEPRIORITY notes.ini parameter being ignored after compacting the mail.box during daily router housekeeping chores (causing low priority mail to fail to route). [4.5.7,4.6.3]

- SPR# TBOD3WUGP3 - Fix a problem which caused database names to be garbled in the Cluster Directory database and subsequent crashes of the cluster replicator. [4.5.7,4.6.3]

- SPR# DWIN3XGVR9 - Allow the server administrator to specify whether empty response documents should be posted for Rename and Delete in ACL, Rename and Delete in Readers and Authors Fields, and Get Information for Mail File Deletion requests in the Administration database. Please note that, if clustering is set in a Server document, that document must be resaved using the new Address Book design; otherwise, this new capability will be the default. [4.5.7,4.6.3]

- SPR# CODL3M8JCA - Fixes a server crash caused by the attempt to access the Master Address Book on another server when it is locked by another program (like a backup utility). A subsequent fix to the one done for R4.5.5 was necessary to fix the problem. [4.5.7,4.6.2]

- SPR# ATHS3P5N83 - Prevent a server crash caused by a client accessing a very large database with many unread documents. [4.5.7,4.6.1]

- SPR# KNIL426RYA - Fix a problem with users receiving the error, "Server error: Insufficient memory," from servers with slow disks. [4.5.7,4.6.2b,4.6.3]

- SPR# LVAO3NARUR - Prevent a server crash caused by a user opening very large databases with lots of deletion stubs, resulting from the server trying to update the user's unread marks. [4.5.7,4.6.1]

- SPR# SVRO3Z8QTH - Prevent notes from having a Created time in the future when they are created on a server during and immediately after the Compact program runs. [4.5.7,4.6.3]

- SPR# MSAN3VTWQ - Prevent a server crash caused by folder corruption in databases. [4.5.7,4.6.3]

- SPR# HHEY3WFNHY - Allow document and database links to fail over appropriately when a clustered server is busy. [4.5.7,4.5.6a,4.6.3]

- SPR# JPAI3VCRD5 - Fix a server crash (PANIC: LookupHandle: null handle) when updating full-text indexes due to incorrect memory re-initialization during a retry. [4.5.6a,4.5.7,4.6.2]

- SPR# SVRO425S42 - Fix a potential server performance problem when clients are opening the Address Book and unread marks are being updated. [4.5.7,4.6.3,4.6.2b]

- SPR# SCHW3QKAV9 - Add a parameter to Compact (-i) so that it will ignore errors and continue compacting a damaged database. Please note that this parameter should be used only in extreme conditions since its use will result in data loss. [4.5.7,4.6.3]

- SPR# AWHR3LTSC - Correctly use the ACL in the busytime.ntf when creating busytime.nsf. [4.5.7,4.6.2]

- SPR# SVRO3WLQA4 - Prevent replication conflicts caused by incrementing field level sequence numbers incorrectly during a replication conflict merge. [4.5.7,4.6.3,4.5.6a]

- SPR# KNIL3XRSXB - Prevent another instance of Unix and Windows NT Alpha servers crashing and reporting "PANIC: List Entry count in TEXT_LIST is invalid." [4.5.7,4.6.3,4.5.6a]

- SPR# LSR3Q8M6R - Map informational messages that indicate what the Notes performance monitor is doing in order to avoid the error message. "The description for Event ID (#) in Source could not be found." [4.5.7]
Lotus Notes and Domino 4.6.5 Release Notes  
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- SPR# SVRO3WLQ3Y - Prevent replication conflicts caused by the update of all field level sequence numbers to the sequence number of the document when a document is added to a given database replica. Field level sequence numbers should only be changed when the field itself changes. [4.5.7,4.6.3]
- SPR# DAJR3Z3S4B - Prevent a server hang caused by all processes being locked out of the Address Book for extended periods of time while a user's unread marks were being updated. [4.5.7,4.5.6a]
- SPR# JHUI3TXRBD - Fix a problem which prevented QNC from producing notes.rip files when the path where QNC was installed contained a space. [4.5.7]
- SPR# DWIN3Z3RWX - Fix a problem with the Admin Process failing to update database ACLs when performing a "Rename Person In ACL" request. [4.5.7]

**Template - Document Library (R4.6)**
- SPR# MGAR423SWT - Fix a date display problem with document review tasks in the To Do view of a mail database. [4.5.7]

**Template - Mailfile**
- SPR# MHAC3QGR4Q - Fix a problem with being unable to create a monthly repeating entry for anything other than every month. [4.5.7,4.6.3]
- SPR# JKEY3SXSF6 - Fix a problem with the "Not for public viewing" option not propagating to repeating documents after editing the field. [4.5.7,4.6.3]
- SPR# OLR3X2TK7 - Fix a problem causing the workstation to hang when moving a repeating calendar entry that occurred on the same date every month to a Friday, if the date occurred on a weekend. [4.5.7,4.6.3]
- SPR# YYO3NZE83 - Correctly fill in the domain name in the cc: field while using the Reply to All button in mail when the sender's domain name is contained in the recipient's domain name; for instance, if the sender's domain name is CompanyA and the recipient's domain name is CompanyABC. [4.5.7]
- SPR# MALZ42ZMW2 - Fix a problem introduced in R4.5.5 which calculated the due date for a task incorrectly under certain circumstances. [4.5.7]

**Template - Public Address Book**
- SPR# WLII3S3S8G - Fix a problem where Authors of the Address Book with the Role ServerModifier are unable to modify a Server record to add a server to a cluster. [4.5.7]

**Templates**
- SPR# RJAN3WCLSH - Provide compatibility for future feature releases for repeating meetings in all of the mail templates and in the Resources Reservations template. [4.6.3,4.5.7]

**Web Server**
- SPR# VWIR3WFAL6 - Fix a crash in the HTTP Server when trying to open a database that has a Notes V1 icon. [4.5.7,4.6.3]
- SPR# PHAN3W5BHC - Add support for the Euro currency symbol to the HTTP server by adding support for codepage Windows-1252. The MS Sans Serif font on Windows 95 is mapped to Helv and does not support this character, however. [4.5.7,4.6.3]
This notice is to inform you that there is a Quarterly Maintenance Update (QMU) to R4.5.7. The QMU will be called R4.5.7a and contains eleven fixes. Below is the fix list for R4.5.7a. This copy of the list is public and can be distributed to customers. This QMU is applicable to all platforms for the R4.5 client and server.

R4.5.7a QMU fixes

Administration

SPR#JMCA43GBVG - Enhance the change for SSHE3P5SXT (in R4.5.6) which provided the capability for system administrators with only Author access to the Address Book to modify certain fields in the Person record which were previously restricted to Editors or above. With this latest change, the fields in the Person document of newly registered users will be set according to the Person document form instead of being protected automatically. As before, this capability involves changing the design of the Address Book and is not recommended.

API

SPR# AKLS43DJCV - Fix a problem (introduced in R4.52) where a successful update/updall process returns -1 (failure) instead of 0 (success). As a result, automated scripts that check this status failed to continue.

SPR# VROZ3YKJYA - Fix a problem which prevented deleted documents from being removed from folders (via the API or LotusScript). This problem was introduced in R4.5.5. A partial fix was in R4.5.7 and a further fix was added in R4.5.7a to remove deleted response documents from folders as well.

Client

SPR# DDEY3K7QY2 - Fix a problem with URL strings not automatically becoming hotspots when the string is created in a subform. This problem was previously listed as fixed in R4.5.3, but the fix was not included.

Client - Mac only

SPR# PMOL43F2MG - Fix a problem with Macintosh clients hanging when opening documents containing image types implemented in future releases of Notes.

Client - OS/2 only

SPR# AGÖR457KG3, BLAE44XPBU - Fix a regression problem introduced in R4.5.6 on OS/2 clients which caused type-down addressing in the Mail Address dialog to accept keystrokes as shortcut keys instead.

SPR# MNAS45P44D - Fix an intermittent, non-reproducible crash on OS/2 workstations caused by the operating system returning invalid data to Notes.
Client - Windows 3.x only

SPR# ATAI44L899 - Fix a regression problem introduced in R4.5.7 on Windows 3.x clients which caused a crash when using File->Database->Properties to view User Activity when there were very many users listed.

Server - Unix only

SPR# RWAT45DHPX - Fix a problem in Domino R4.5.7 International English which produced the error "syntax error at line 419 : `(' unexpected " when nsd.sh was executed.

Template - Mailfile

SPR# JHOD44C2BQ - Prevent the Out of Office agent from sending multiple Back in the Office reminders in one day when the trigger on the ProcessOutOfOffice agent is set to "if New Mail has arrived."

Template - Resource Reservations

SPR# MALZ44PLDG - Fix a problem with users receiving a reply every time the Autoprocessing Agent in the Resource Reservations database ran if the Resource was included in the "Send invitations to" or "Optional invitees" field.

Client, Designer, Server

4.5.7b Quarterly Maintenance Update (QMU)

Fix List for Lotus Notes and Lotus Domino
Release 4.5.7b QMU

This notice is to inform you that there is a Quarterly Maintenance Update (QMU) to R4.5.7. The QMU is called R4.5.7b and contains five fixes. Below is the fix list for R4.5.7b. This QMU is applicable to all platforms for the R4.5 client and server.

Client

SPR# MKER462R9H - Fix a problem introduced in R4.5.7 that causes a crash when choosing View-Switch Form on a document, and the server becomes unavailable after the document is opened.

SPR# PWIN457FQH - Fix a problem in which mail was not saved to the user's mail file as encrypted when the user expected it to be. If the following conditions were met, the mail was not saved as encrypted: User Preference for "Encrypt saved mail" was not set, the user used the Delivery Options dialog box to encrypt mail for sending, and the user's Location Document specified the mailfile pathname using forward slashes (/) instead of backward slashes (\). Even under these conditions, however, the message would be delivered to the recipient encrypted as expected.

Client - Mac only

SPR# SSTN45DQ9V - Fix a problem with Notes crashing on the Macintosh Power PC when using TCP/IP and having Calendar alarms enabled.
Client - Unix only
SPR #TCUM3XHT4W - Disable the printing of attachments on Unix clients.

LotusScript
SPR# MSAN46AUSR - Fix a memory overwrite problem that caused various unpredictable crashes.

Client
Overview of Notes Client Release 4.6
Notes Release 4.6 client features
The focus of the Notes Release 4.6 client is personal integration and management of content from Notes databases, Internet mail, and the Web. This release contains a number of significant enhancements, including a new user interface metaphor (the portfolio database) for task-oriented navigation, improved web browsing, enhanced Microsoft Office and Lotus SmartSuite integration, Internet (POP3/SMTP) mail, and seamless Web access from the Notes client. The Personal Address Book is also enhanced to support better contact management functions and integration with core Notes features. Below is a listing of the most significant enhancements in this release:

Portfolios: A new navigation paradigm
Portfolios represent a new way to navigate and manage information either individually or between members of a group. A portfolio is a group of applications that have a common theme. The following usage scenarios illustrate how they might be used:

Usage Scenario 1: Each Notes Release 4.6 user has a portfolio called "Favorites" which is automatically created during the setup process. By default, this portfolio includes navigational icons representing the following applications: e-mail, calendar, to-do lists, personal name and address book, a personal journal and the web. These applications comprise the most basic set of what an individual needs to access and manage information within Notes. The portfolio allows an individual to easily and efficiently navigate among these applications in such a way that the actual activity of navigation is more natural for the user and, instead, the focus is on the task and the job at hand, not the actual applications. Portfolios can be totally personalized so that users can add the applications they use to their Favorites portfolio for easy access.

Usage Scenario 2: A new employee starts in your company and you want that employee to have access to all of the common corporate resources such as corporate policies, company benefits information, your corporate directory and electronic forms for performing various activities. A portfolio which includes all of these applications could be created and centrally managed by the Human Resources department and provided to each new employee when they start.

Integration with Lotus SmartSuite and Microsoft Office - Notes 4.6 offers superb integration with Lotus SmartSuite and Microsoft Office on a number of points using the Windows ActiveDoc technology. Here are a few of the highlights:

- Use Lotus Word Pro 97, Microsoft Word 95, or Microsoft Word 97, as an alternate e-mail editor - it's your choice.
- Free Document Library application included to share and route documents with others securely using built-in workflow. Create proposals, budgets and presentations within Notes using the business productivity applications you're used to and route them around to colleagues using the built-in workflow capabilities in Notes and Domino.
Enhanced Internet Web navigation
Now you can use Microsoft Internet Explorer for navigating the Internet - right from inside your Notes client, using the Internet Explorer ActiveX component. This allows you to render Web pages with all the power and speed of Internet Explorer, but still retain the best of Notes functionality for storing and managing your Web information, such as:

- Forwarding Web pages to colleagues via e-mail
- Web Bots - Page Minder and Web Ahead agents to do the surfing for you
- Selective local Web page storage for off-line browsing

You can selectively cache pages for off-line use, enable Page Minder or Web Ahead agents, and set Database Size Options for "housekeeping" the database. Pages not read within a certain amount of time can be reduced to links, updated pages can be forwarded to your mail file automatically, and pages can be manually cached by selecting "Add Bookmark" from the Action Bar.

Contact management
Now you can use your Notes client as a Contact Manager right from your Personal Name and Address Book.

- Use new Business Card style addressing for storing contact information
- Create a mail memo, a meeting invitation or go to a contact's Web site simply by highlighting a Business Card and hitting a button
- New calendar printing views for more flexible options

Person records have been enhanced to include much more information, and fields are automatically parsed as the information is added. Dynamically edit the form to reflect the correct contact information for each record. For example, if Bob doesn't have a Pager, but instead has a phone on his boat, you can easily change his form to include "Boat Phone" as one of his contact numbers. Add additional contact information such as spouse and child names, as well as department and mail stops in the "More information" section of each record. User-defined categories for each contact make it easy for you to categorize and view contacts to find who you're looking for faster.

"Time Savers" for personal information management
Have you ever been reading your e-mail, see that you need to act on the contents of the mail, but dread the 12 menu steps it will take you to do so? Notes Release 4.6's Time Savers allow you to do just that. For example, you can quickly and easily:

- Convert an e-mail directly into a calendar appointment for yourself, or a meeting that you invite others to
- Convert an e-mail into a to-do item for yourself or someone you work with
- Create a mailing list using the members of the "To:" and "cc:" fields of a memo or meeting invitation you've received so that you can easily send mail to that same group of people in the future

POP3/SMTP mail support
Notes Release 4.6 users can send and receive e-mail from any POP3 account whether on the Internet or their company's intranet - all using the same familiar Notes interface that you use for your other activities such as contact management and web browsing. The inclusion of POP3 in Notes Release 4.6 demonstrates Lotus' continued commitment towards open standards and a server-independent client with this universal in-box approach.
**Printing Calendar views**

Notes 4.6 supports printing calendar views as they are displayed.

- If you want to print the current calendar view, display the calendar view and select File - Print.
- Print View is selected in the Print dialog box by default. If you select OK, the view is printed as it is displayed.
- If you select Print Selected Days and specify a range of dates, you get a linear listing of the calendar entries for that date range.

**Server**

**Overview of Domino Server Release 4.6**

The new release of the Domino server elevates the standard for enterprise messaging, groupware, and Web application development servers. It is available on all Domino server platforms, including Windows NT, Windows 95, OS/2, Netware, and UNIX. The objectives of this release are to:

- Support key email and directory Internet standards - IMAP4/MIME, LDAP, and NNTP - for standards-based access to Domino mail, directories, and databases.
- Establish Domino further as the leading Web application server by upgrading and improving Domino HTTP and SSL support, by supporting the Notes Designer client, Release 4.6, which has a number of improvements for the development of a Web browser accessible Notes database, and by enhancing the application development capability with support for Java 1.1 agents and Java-based access to Notes objects.
- Lower the cost of ownership by simplifying installation, configuration, and administration of Domino servers.

**Client, Designer**

**Overview of Notes Designer for Domino 4.6**

Lotus Notes® Designer for Domino is available for the first time in Release 4.6.1. Notes Designer is the developer’s version of Notes -- with everything you need to build and maintain secure and collaborative applications on the Lotus Domino server. Programming and configuration capabilities previously available in Release 4.5 of the Lotus Notes® Client, in addition to the following tools and enhancements, are now available only in Designer.

- Enhanced ability to embed Notes objects within Web pages. Functionality previously available only through $$fields is now accessible within Designer pull-down menus and dialog boxes.
- Added design preview mode for Web browsers. Developers can preview their application in a Web browser during development, thus saving design and debugging time.
- Create applications that use Java with Designer. Java applets can be embedded in documents and in Notes forms with just a mouse click. Applets can provide dynamic elements to an application or application control.
- Lotus BeanMachine for Java and Notes Global Designer are included in Designer. BeanMachine for Java is the only tool that gives you visual authoring of Java Applets without writing a single line of code. Internationalize new and existing Domino/Notes databases quickly and efficiently with Notes Global Designer.
- New HTML features have been added to make development of customized Web pages with HTML quick and easy. In addition, custom HTML code can be easily added to applications developed with Designer.
- Developers can more easily control the design of applications created with Designer for either Web browsers or Notes clients. For example, you can selectively hide application pieces when displayed in Web browsers or Notes clients.

- Improved Navigator features and access. For example, added circular hotspots, import filters for standard graphic formats, and text property enhancements.

- Use Java to create server agents to perform tasks such as automated server administration. Agents can be triggered by server events or run as scheduled tasks.

- New templates and examples have been added, including a Quickstart Web Site, discussion databases, and document libraries.

- More than 20 new LotusScript classes have been added in Release 4.6.1. Classes have been added to improve access to backend Domino features, user interface features, and Notes agents.

Designer

**Notes Designer for Domino 4.6 features**

**Notes Designer for Domino Release 4.6**

The focus of the Notes Designer for Domino Release 4.6 is an integrated development environment for building Domino applications targeted for the Web. This release contains support for Java applets and agents, improved usability of web-oriented features, and several integrated products. Below is a listing of the most significant enhancements in this release.

**Java applet support in forms**

Notes Designer for Domino Release 4.6 lets you store and execute Java applets from within forms. This feature lets Web developers create a richer, more interactive experience for users by using Java applets as a part of the forms that are presented to both browser and Notes client users. Additionally, the storage of Java applets within Domino application databases allows developers to take advantage of Domino's world-class replication technology for keeping their Java applets synchronized in multiple locations. Developers now also have the ability to easily link to a Java applet which is stored in the file system.

**Java agents**

Notes Designer for Domino adds yet another tool to the developer's toolbox: Java Agents. In addition to the previously available Simple Agents, Formula Agents and LotusScript Agents, developers can now use Java to develop agents. These agents perform a range of tasks from e-mail filtering to knowledge management to automated server administration. The ability to write them in Java allows organizations to make the most of their Java programming resources while still utilizing the power of the Domino environment for their Web needs.

**Navigator enhancements**

Improve the layout of your Web page. Notes Designer for Domino gives Navigator and imagemap creators more control over graphical layouts, new graphical objects, and the ability to import graphic files into Domino applications. The new file formats include BMP, GIF, JPEG, PCX and TIFF.

**Easier addition of Domino Web elements to pages**

Save time and energy by adding views, navigators and folder panes more easily to your Domino pages using a new user interface option.
Hide design elements from browsers or Notes clients
You no longer need to limit the experience of your Notes Desktop users because of the limitations of Web browser technology. Use this new "Hide" option to show the richer, more sophisticated pieces of your application only to Notes users and not to Web browsers. Or, show certain areas of your application only to browsers in order to exploit their particular capabilities.

Application pieces can be hidden either by design, or on the fly using the new @ClientType function. Now all of your clients can get the most out of your Domino server.

Web Browser preview
Notes Designer for Domino Release 4.6 contains a new design mode to allow developers to preview what their application looks like in a Web browser in addition to a Notes client, thus saving valuable design and debugging time.

LotusScript enhancements
Over 20 new LotusScript classes, events, and other enhancements have been added to Notes Designer for Domino Release 4.6.

Integrated tools added
Lotus BeanMachine for Java and Notes Global Designer are now bundled in the package in Designer. BeanMachine for Java is the only tool that gives you visual authoring of Java Applets without writing a single line of code. Internationalize new and existing Domino/Notes databases quickly and efficiently with Notes Global Designer

Bundled templates and examples
- Site Examples included with Notes Designer for Domino -- sample site databases containing a variety of "starter" pages that can be easily leveraged and customized by Web site designers.
- Frame Set Examples -- sample that provides Web developers with examples of how to create Domino Web applications that leverage frames.
- Mail Template (both Notes and browser) -- enhanced mail template that's designed for optimal access from either a Notes client or a Web browser.
- Discussion Template (both Notes and browser) -- enhanced discussion template that's designed for optimal access from either a Notes client or a Web browser.
- Document Library Template (both Notes and browser) -- enhanced document library template that's designed for optimal access from either a Notes client or a Web browser.

Server

Domino Server 4.6 features
Easy server setup and configuration
Server setup and configuration is simplified in the Domino Release 4.6 server. There are four steps to setting up a Domino server. The Domino setup now searches your PC for existing system information, such as network protocols.

Enhanced HTTP server
Domino Release 4.6 includes an updated HTTP server. The new server is faster and supports HTTP 1.1 and Secure Sockets Layer (SSL) 3.0. The Domino Release 4.6 HTTP server lets you:

- Create customized response pages for authentication failures, authorization failures, successfully deleted documents, and all other Domino/Notes general errors. The response pages can be set on a per database level, per virtual server level, and on a server-wide level.
- Have valid URLs automatically converted into links into your Web pages served by Domino.
- Format tables properly without empty or white spaces between cells.
- Open views to a particular document by key.
- Sort views by clicking on the view's column title from a Web browser.
- Log useful billing information to be used with the billing application when using the Advanced Services features of the Domino server. A new view and form are included in the billing.nsf file that contains the log information for each request plus the amount of time in milliseconds it took to process the request.
- Have support for UTF-8 output and support of numeric reference for international characters.

**Native IMAP Mail Protocol Support**
The Domino 4.6 server supports the Internet standard IMAP protocol that lets users of IMAP client programs access mail files on a Domino server for reading and managing e-mail. The IMAP support:

- Lets IMAP clients retrieve mail in its native form as it was received from SMTP
- Presents Domino folders as IMAP folders
- Uses the Domino security model, including user authentication for server and mailbox access
- Allows mixed use of Notes and IMAP clients with a single mail file, thus enabling easier administration of mail servers and users. Mail documents appear the same, regardless of whether a Notes client or an IMAP client is used.

More information about IMAP can be found at [http://www.imap.org](http://www.imap.org).

**Native LDAP Directory Protocol Support**
Domino Release 4.6 supports the Lightweight Directory Access Protocol (LDAP) for accessing directory services over TCP/IP. LDAP provides a common means of access for clients, applications, and servers to directory listings in heterogeneous environments and on the Internet.

Native LDAP support enables users of POP3, IMAP, or other Internet mail clients that support LDAP to perform name lookups into the Domino server folder when addressing e-mails. Additionally, Domino server administrators can set up their Domino servers to perform LDAP lookups into LDAP-compliant public directories on the Internet (such as ldap://ldap.four11.com or ldap://ldap.bigfoot.com).

**Integrated SMTP MTA with native MIME support**
The SMTP Message Transfer Agent (MTA) is now a fully integrated component of the core Domino 4.6 server. The SMTP MTA lets Domino server mail users send and receive mail from users on other mail servers, including other Domino servers, using the SMTP standard. The Domino 4.6 server setup program installs and configures the SMTP MTA by default for the Domino server. Lotus Domino 4.6 allows for native storage of MIME-formatted content in the Domino object store.

Companies using Domino servers can use the SMTP/MIME MTA to let users send and receive e-mails over the Internet. The ability for the Domino server to handle MIME objects ensures the message content remains unchanged when delivered to and sent from Domino servers. Additionally, companies using Domino servers can choose to use the SMTP/MIME MTA to send and receive mail between Domino servers and other mail systems during their migration and coexistence from those systems to a Domino-based messaging architecture.
Native NNTP News Protocol Support
The Domino Release 4.6 server supports the Internet standard NNTP protocol that lets users of NNTP client programs participate in newsgroup discussions on a Domino server. It also supports NNTP server to server newsfeeds with Internet standard NNTP servers, including USENET news servers.

- **NNTP Scenario 1:** A company using Domino servers and Lotus Notes clients within various departments can use the Domino NNTP server to enable employees working in departments where Lotus Notes clients are not deployed to participate in discussions. For example, in the one department, employees can use a browser/NNTP client combination for their information needs. Whereas in another department, employees can use the Lotus Notes client. The Domino NNTP server lets all of these employees participate in the same discussions.

- **NNTP Scenario 2:** A company using Domino servers and Lotus Notes clients can use the NNTP server to enable all the employees to access relevant USENET news. For example, the Information Systems department can define a list of appropriate USENET groups. Once the NNTP server is running, employees can use their Notes Clients to access and to participate in the USENET news forum.

SSL 3.0 Internet Security Protocol Support
The Domino Release 4.6 server supports the latest version of the Internet standard Secure Sockets Layer protocol, version 3.0. The Domino 4.6 server can accept X.509 certificates issued by third-party certificate authorities as a means of authentication of user or server identity. This support builds upon the already rock solid Internet security infrastructure brought to the marketplace by past releases of Domino.

More information about the SSL protocol can be found at http://www.consensus.com.

Web browser-based server administration tool
You can administer your Domino server using a Web browser. Check a server status, start and stop server services or monitor statistics while you perform other tasks. The new browser administration feature enables designated administrators to securely administer Domino servers using any networked computer.

Windows NT integration enhancements
Two of the most popular new Domino-NT integration features are as follows:

- Complete group management (add, modify, delete, and security settings) and synchronization between the NT Directory and the Domino folder.
- Password synchronization between NT Internet user passwords and Domino HTTP passwords.

Lotus Notes Connect for ISDN
A CAPI-compliant ISDN driver is now available via the Web for the Domino 4.6 server and the Notes 4.6 client. ISDN (Integrated Services Digital Network) is a growing public telecommunication network with a flexible infrastructure designed to integrate voice, data, video, imaging. CAPI (Common Application Programming Interface) lets any application program communicate with any other third-party CAPI-compliant ISDN driver and adapter cards.

With Notes and Domino Release 4.6, customers can now take advantage of key CAPI ISDN benefits natively right from within their Notes desktop environment. These benefits are:

- Higher speed bandwidth than analog modem-based solutions
- Reliable end-to-end digital transmission
- Cost-effective solutions to private leased lines
**Bundled Templates and Examples**

Site Examples included with Notes Designer for Domino - sample site databases containing a variety of "starter" pages that can be easily leveraged and customized by Web site designers.

Frame Set Examples - sample that provides Web developers with examples of how to create Domino Web applications that leverage frames.

Mail Template (both Notes and browser) - enhanced mail template that's designed for optimal access from either a Notes client or a Web browser.

Discussion Template (both Notes and browser) - enhanced discussion template that's designed for optimal access from either a Notes client or a Web browser.

Document Library Template (both Notes and browser) - enhanced document library template that's designed for optimal access from either a Notes client or a Web browser.

**Client**

**Additional features in release 4.6**

**Display of Unicode characters**

Release 4.6 of the Notes client includes support for Unicode fonts. To enable this feature, add the following line in the NOTES.INI file:

```
UNICODE_DISPLAY = 1
```

If this line is missing or if the setting is UNICODE_DISPLAY = 0, there is no support for Unicode fonts and the Notes client displays text by translating from LMBCS to the platform character set, exactly as in earlier releases.

If the feature is enabled, then Notes examines the currently selected font to see if it supports the Unicode range based on the user's locale. If it does, then Notes translates from LMBCS to UNICODE for displaying text. If not, then LMBCS is translated to the platform character set, just as in earlier versions.

The default setting for the North American version is UNICODE_DISPLAY = 0. Part of the localization process involves turning on this feature (UNICODE_DISPLAY = 1) for those language versions where multilingual display is important. In either case, the end user can override the system setting by editing the NOTES.INI file. There is currently no user interface in the Notes client for enabling Unicode display.

**Keyboard switching**

In conjunction with Unicode display, the Notes 4.6 client supports keyboard codepage switching. The client pays attention to the currently selected keyboard input locale and converts keyboard input from the codepage for that locale into LMBCS.

**Groups form in Name and Address Book**

The members field in the Groups form of the Name and Address book is now wider. This enhancement lets you view long, hierarchical names more easily. SPR #JSMH3EWM6

**Wildcard capability in Network Connection Documents**

Lotus Notes allows an asterisk wildcard character in the address field in certain connection documents. You can use this new capability with the existing capability of using asterisks as wildcards in the destination server field (which allows one connection document to apply to all of the servers in a group or organization). When an asterisk appears as the first character of an address field in a Network connection document or a Remote LAN connection document, the common name of the server being sought is substituted for the asterisk in the address.
For example, if a Network connection document exists for destination server "/Acme", specifying the protocol "TCP/IP" and the address "*.acme.com," you can use this connection document to connect to any acme server (for example, Sales/Acme) if the acme servers have IP addresses in the acme.com domain (for example, sales.acme.com).

Using these wildcard constructions makes the management of connections to servers in other domains much easier.

**Lotus Notes Connect for ISDN**
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With Notes and Domino 4.6, customers can now take advantage of key CAPI ISDN benefits natively right from within their Notes desktop environment. These benefits are:

- Higher speed bandwidth than analog modem-based solutions.
- Reliable end-to-end digital transmission.
- Cost-effective solutions to private leased lines.

**Browsing Offline Using Notes and Internet Explorer 4.0**
Release 4.6 of the Notes client includes support for the offline browsing feature introduced in Internet Explorer 4.0. If you are using the Notes with Internet Explorer browser selection, choosing Browse offline in your location record turns on Internet Explorer's "Work Offline" mode. When this option is set, Internet Explorer reads web pages exclusively from the cache. If a page is not available in the cache the cursor will appear as: ![link](https://i.imgur.com/12345.png). If the user clicks on such a link, Internet Explorer prompts the user to go online or to continue working offline.

**Save Conflicts**
If Domino encounters a Save conflict created by the same user, it overwrites the document instead of creating a conflict.

**Server**

**New SMTP/MIME MTA features in Release 4.6**
- **Integrated installation with Domino:** The SMTP/MIME Message Transfer Agent (MTA) is now a fully integrated component of the core Domino 4.6 servers. The server setup program installs and configures the SMTP/MIME MTA by default for Domino servers.

- **Storage of native 822/MIME message format:** A new Internet message storage setting in the Person record controls how messages are stored when they are received by the SMTP/MIME MTA or IMAP server, and how the messages are retrieved by IMAP or POP clients. The Internet Mail storage format provides full fidelity for Internet mail messages, including MIME, for IMAP and POP users.

- **Performance improvements:** Now that the MIME message format can be stored in the Notes object store directly by the SMTP/MIME MTA, performance has been considerably improved by eliminating the conversion process when the Internet Mail storage field is set to Internet format. Additionally, the MTA work queue process is optimized to reduce Notes memory consumption and increase overall performance.
- **Improved address processing**: The SMTP/MIME MTA will now maintain the phrase and/or comment parts within an Internet address.
- The MTA encodes/decodes international characters in the phrase and comment portion of an address.
- The Content-Disposition header `filename` parameter is used in preference to the Content Type `name` parameter for inbound messages. Both parameters are used to carry the file name of an attachment.
- The MTA uses a common method of resolving the issue when there is a difference between the recipient address in the RFC821 envelope versus the recipient address in the RFC822 header. By default, the MTA normally places the envelope address in the BCC field. For customers who do not want this default mode of operation, there is an .INI variable (SMTPMTA_NO_IMPLICIT_BCC) to disable this.
- **Changed processing of resent headers**: Now by default, we ignore Resent headers for inbound messages. An .INI variable (SMTPMTA_IBIGNORE_RESENT) has been changed to allow customers to recognize or ignore the RFC822 Resent headers allowing them to control the use of Resent headers when present on inbound messages.
- **Extended control of multiple text parts**: Inbound message processing has been enhanced to interpret each secondary MIME text body part that has an associated name parameter as a Notes mail item attachment. A new INI variable (SMTPMTA_INLINE_TEXT_ATTACHMENTS) allows administrators to set the default action for these secondary text body parts with a name parameter to be displayed "in-line" with the mail item.
- If a Notes user name contains international characters, an attempt is made to access an ASCII short name in order to form a legal internet address.
- **Internet Address lookup feature**: The Internet Address lookup feature allows you to assign a fully qualified Internet address, specific to the individual known within the Notes Name and Address Book. Note that this feature allows recipient and originator address rewrite.
- **Extended Macintosh attachment support**: The MTA supports AppleSingle, AppleDouble and BinHex. Additionally, non-ASCII Macintosh attachment names are now supported.
- **Extended attachment identification support**: The MTA uses code from INSO Corp., known as "file viewer" code, to identify the type of data included in attachments. If the INSO file viewer code cannot determine the attachment type, the MTA now determines the type of data included in outbound file attachments by mapping the attachment's file name extension to the correlating MIME type in the MTA tables database.
- **International character set support**: Thai characters are supported.
Lotus Notes and Domino 4.6.5 Release Notes

Chapter 6 - History of changes

Client, Designer, Server

Notes and Domino Release 4.6a

New enhancements introduced in Notes and Domino 4.6a are as follows:

All Platforms:

Web Server

- SPR# AWHN38HRS5 - Allow the HTTP server to be installed in a Notes directory containing spaces in the name. This is often the case when Domino is installed in C:\Program Files\Notes\.

- SPR# RCON3KPT3R - Allow the use of lowercase hex characters in URL % encoded data in a Java applet.*

- SPR# RCON3KPU8G - Display the filename for a database that has no title in the list of databases presented to a Web browser using the OpenServer command.

- SPR# MKEN3N4PEA - Fixed HTTP crash caused by incorrect post data received.

- SPR# JCHN3N4HDT - Fixed HTTP crash caused when parsing incomplete post data.

- SPR# JPAI3NXM7D - Fixed infrequent server crash that resulted upon following a bad error path.

- SPR# MKEN3MGTUX - Fixed intermittent HTTP crash caused by a memory contention issue.

- SPR# MKEN3N5NS8 - Fixed intermittent HTTP crash caused by improper memory access.

Template

- SPR# RCON3NQTQE - Corrected WebAdmin tool problem resulting from a configuration line missing in DOMINO.CNF file.

- SPR# COY3N5QQZ - Fixed template use authorization stamp on the following templates MAIL46.NTF and MAILC46.NTF to allow them to be used by the Notes Mail client.

- Added MAILW46.NTF to OS/2 kit. It was inadvertently left off in Release 4.6.

- Updated design of SIREGW46.NSF to enhance the secure handling of site registration.
Lotus Notes and Domino 4.6.5 Release Notes

Chapter 6 - History of changes

Notes and Domino Release 4.6.1

The enhancements introduced in Notes and Domino Release 4.6.1 are as follows:

Administration Client

- SPR# QWUU3LZTJS - When using the Administration Client, this prevents the desktop from being displayed after an error.

API

- SPR# SBON3JCT2E - Fixed the comments in the header file, actods.h, for CDACTION values.
- SPR# SBON3A8NQW - Correctly exposes type codes and flag values for CDACTION and CDACTIONBAR records.
- SPR# SJAN3B8QPJ - Removes the function, Schedule_NewFromBitMap, from the API.
- SPR# JASH3CYR3R - Fixed a comment in nsfdata.h to not mention two functions that were not exposed in the Notes API.
- SPR# RADS3MNTNW - Correctly exposes routine for Extension Manager, EM_NSNOTEUPDATEXTENDED, so applications can hook all notes updates.
- SPR# SCTN3P2EAS - Enables Thai support for MAPI providers such as Microsoft Exchange.
- SPR# DANO3PNPKD - Exposes NSFSetMaxPasswordAccess and NSFGetMaxPasswordAccess in the API.
- SPR# SGAU3BTSRA - Fixed the API subroutines, NSFDbAccessGet and ACLLookupAccess, to return all of the same information for a given user.
- SPR# DANO3PVT4R - Allows API access to profile documents via newly exposed routines, NSFProfileOpen, NSFProfileDelete, NSFProfileUpdate, NSFGetField, NSFSetField, and NSFProfileEnum.
- SPR# MGRS3QYK23 - Fixed a crash in a Visual Basic application that uses Active Messaging classes which call down into Notes MAPI SPI.

INSO 5.11 Viewers

- SPRs# - ABAN36JUEK, CKAC33ZSZ5, DQUY3GZR7W, DROS3K9H3, HNIO3G895S, HNIO3G8A07, JHOD3KHNEQ, JCRE3JCH4E, JTHN34DL5C, KISA3FXG2U, KISA3FY63S , KGUT3E3J57, MHAC3KWMV9, PLAE3GMRKQ, PLAE3H9PDS, PLAE3H9PHM, PLAE3HQNWA, PLAE3HSMPUT, PLAE3JDMWJ , PLAE3JRLJE8, PLAE3JSNQ4, PLAE3JSNVL, PLAE3JSNY6, PLAE3JSRP9, PLAE3KXR8Y, PLAE3KXRE5, PLAE3NHS6T, PLAE3NJNUE, PLAE3NNJNXF, PLAE3NPB, PLAE3NJPDU, PLAE3NPNG8, PLAE3NPJKL, PLAE3NQL66, PLAE3NQL9, PLAE3NQQR, PLAE3NQSRG, PSAN3J7K9U, SAN3M8KZX, LAE3HND5H, SMAR3FGU96, VPAA3FALJN -

Notes 4.61 uses the latest viewer technology (version 5.1.1) from INSO Corporation. The new version of the viewers contains many improvements, provides some critical bug fixes, and adds support for HTML, Office 97, Lotus SmartSuite 97, WordPro 96, RTF, PDF, PCX, and CCITT Group 3 Fax.
The implementation of the 5.1.1 viewers introduced some new issues which may not have been present in earlier versions of the viewers. Lotus is currently working with INSO on solving these issues. Below is a list of known issue areas.

- Occasional hang/performance issue in Excel spreadsheets (for example, opening some spreadsheets causes Notes to hourglass with no recovery).
- Inverse printing issue with some graphic formats (for example, some Freelance and PowerPoint documents appear OK in the viewer but print inverse).
- International users only: separator issue with spreadsheets (for example, the general format for spreadsheets inserts an incorrect separator -- 1.23 instead of 1,23).
- Problems with the display of graphics (for example, charts) in Lotus and Excel spreadsheets.
- Some extended ASCII characters do not appear correctly.
- TOC/Indices may not appear or print in their entirety in the word processing viewers.

**Calendar & Scheduling**
- SPR# AGRS3M3PKA - Enable the Windows Close button (X in the upper right corner) on the Alarm dialog, which is presented when composing or editing a entry in your calendar.

**Client/Workstation**
- SPR# RPAL3KVJ8X - Prevents the display of an error message before successfully failing over on a portfolio database.
- SPR# DMAS3KUR9M - Correctly clears the full-text information from the Database properties infobox when there is an error creating the full-text index. This problem was especially noticeable on the Notes Lite client where the feature to create full-text indexes is not available.
- SPR# RPAL3KUSH5 - Fixed a problem with the view/folder pane being fully collapsed when a database is opened after a document is opened and subsequently closed as a result of using the Edit - Unread Marks - Scan Unread feature.
- SPR# DLON3MQJSB - Fixed a problem with the display of certain images (24 bits per pixel and an odd number of pixels) when pasted into Notes, which sometimes resulted in a crash.
- SPR# MHAC3G8TTE - Fixed a problem with the inability to print a document that is pasted from Word 97 because of an "Insufficient Memory" error.
- SPR# JKEY3J7RU8 - Includes non-Notes mail users in the list of people in the Welcome Back message sent by the Out of the Office agent to the user upon return.
- SPR# JMIIR3LUU5F - Added support for the NOTES.INI variables, JavaMaxHeapSize and JavaStackSize, in Java agents started by JEmpower on the client.
- SPR# WEBB3K2HZN - Prevents Notes from changing the "url mailto protocol" entry in the Windows System Registry when changing locations.
- SPR# JROL3KGJNS - Fixed a problem with Internet Explorer 4.0 not using Notes as its mail program.
- SPR# MMGN3KLR4U - Correctly enables the Next button on the Register New Person dialog after moving back to an existing entry.
- SPR# DROS3JVNYE - Includes a new Dutch dictionary that uses the new spelling rules introduced in The Netherlands in August 1996.
- SPR# WEBB3LXPSW - Correctly displays bitmaps in a Navigator when using 256 color mode with dithering disabled.
- SPR# MLED3LDVY3 - Prevents a crash when editing a Navigator and attempting to paste the icon copied from the Database Icon dialog.
- SPR# TSNW3M8HYF - Fixed a crash that occurs when dragging and dropping a database onto a Portfolio (Favorites database).
- SPR# MKOA3G7N6S - Prevents an erroneous status bar message, Double-click to edit Word, when using Microsoft Work to compose a mail message.
- SPR# APAL2XLRWJ - Prevents FX data from being updated if the object does not allow updating, for instance when in read mode.
- SPR# NBAR3M9MVA - Correctly shows the hidden from Notes views (instead of the hidden from the Web views) in the Insert Embedded View dialog when selecting Create - Web Element - Embedded View in form design.
- SPR# MQUE3MQLCN - Supports horizontal scrolling of folder/view names in the Go To dialog box for a database with long folder/view names.
- SPR# KSOA3MQKR2 - Fixed a problem with accessing your local mail replica through the Favorites database when the Stack Replica Icons option is deselected.
- SPR# AMYS3NDRYK - Does not recognize a comma or a semicolon as a valid separator for canonicalized names (along with the forward slash) as this change in R4.6 broke existing R4.5.x applications.
- SPR# SCTN3MVEAX - Fixed a problem with copying multi-byte strings from the clipboard into the Quick Search dialog.
- SPR# SYPK2XY3R5 - Correctly lists all the available font sizes in the status bar for the default Korean font.
- SPR# DKEY3NAUD5 - Allows OLE objects created in a cc:Mail (8.0) memo to be accessed by a Notes mail user and allow OLE objects created in Notes to be accessed by a cc:Mail user.
- SPR# CRAO3PDJHP - Prevents listboxes and comboboxes in layout regions from losing their settings when the running the @Commands, 'ToolsRefreshAllDocs' or 'ToolsRefreshSelectedDocs'. This problem was introduced in Release 4.6 and was not a problem in Release 4.5.x.
- SPR# JHOD3LYP8R - Correctly parses hierarchical names that include spaces in the organization name when including names in the list of names from which to choose when the typed name cannot be matched.

- SPR# EGAN3H5FN - Prevents Notes from searching its entire path for .cls files since they are installed by default in the program directory. This search behavior was causing unnecessary network traffic for clients running from a fileserver.

- SPR# MBOD3PGRYX - Fixed a problem where the database tool to "Analyze a database" did not overwrite the results in the results database (dba4.nsf) even though the overwrite option was selected.

- SPR# POVY3QPU9P - Fixed a memory leak that occurred during the printing of calendar views.

- SPR# HBAY3QHC56 - In the International pane of User Preferences, the two Spelling Dictionary selections for Dutch were consolidated into a single selection titled "Dutch." Note that users who previously had "Dutch Preferred" selected must now choose the new selection.

- SPR# WEBB3MVQRD, DLON3MPQ7G - Fixed the display of colors in navigators when they are either embedded in a form or viewed through a browser.

- SPR #JPKR3Q8QU9 - Fixed a problem with the Database Signing utility that caused it to skip signing a design note if the $Signature field didn't match the $UpdatedBy field.

- SPR# CMUY3LZKSH - Supports subcategories of differing levels in views with more then one categorized column and prevent duplicates from appearing incorrectly.

- SPR# JPKR3NXUMK - Allows the sending of internet mail if the Trust HTTP Proxy option is enabled in the Advanced section of the Location document.

- SPR# ROBT3KUM33 - Prevented duplicate additions to the Portfolio database during setup. This problem was avoided when dragging and dropping entries and only happened during an upgrade.

- SPR# CHRI3MTQ7F - Correctly displays the topmost object when highlighting an object in a Navigator. For instance, when a graphic is positioned on top of a push button, the graphic is correctly displayed when highlighted instead of the pushbutton being displayed.

- SPR# FPAI3PPN6G - Fixed a crash that occurs while designing a form which contained only text (no fields), some of it hidden, and previewing the form.

- SPR# SCTN3PEEHJ - Fixed a problem with incorrect cursor movement using arrow keys in Thai text.

- SPR# MZET3PMPMY - Fixed a crash when attempting to set up a newly installed R4.6 client, stating "NLNOTES caused an invalid page fault in module NNOTES.DLL."

- SPR# WEBB3K7HDF - Removed the 130-character limit of formula for Embedded Web elements such as navigators.

- SPR# PCHE3NAMSV - Prevents an inappropriate error message from being displayed when the user included a partial path name with a Java applet's base class when inserting a Java applet in a note or form.
● SPR# MYKG3L6CWE - Provides a workaround to a bug in Windows NT 4.0 that causes the error, "File does not exist," when attempting to attach multiple files from a directory whose name is in multi-byte characters.

● SPR# JFEN3N9MV - Allows Notes to continue after a re-initialized setup despite a missing Portfolio template.

● SPR# DCOY3PULRY - Correctly honors the "Transfer outgoing mail" threshold in a Location with Local mail when there is a MAIL.BOX and an SMTP.BOX.

● SPR# CLIR3LXN3P - Fixed a crash that happened when attempting to copy an OLE control that had a zero length script associated with it.

● SPR# JCHN3NRJEZ - Prevents the accidental saving of a WebQuerySave and WebQueryOpen comment, "<Your agent goes here>," as the actual formula.

● SPR# SYPK3MF7GB - Adjusted the position of the radio buttons in the Create Agent dialog box so that they display correctly in localized versions of Notes.

● SPR# PMGL3PDKVE - Prevents a search for the plugins directory when attempting to forward Web pages.

● SPR# PJHI3JSTD5 - Uses the correct default value for the Internet Browser selection in the Location record for Unix and Windows 3.1 clients.

● SPR# MKOA3NLSZF - Fixed a display problem in the Portfolio database so multi-line folder names and database titles are shown correctly.

● SPR# SCTN3MVBH6 - Fixed a problem with the Thai version of Notes being unable to start immediately after installation.

● SPR# WEBB3MF2X2 - Allows computed text to be edited after it is pasted.

● SPR# CBRN3PLUZL - Uses the correct verbs for OLE objects created in a previous release of the product even after a new version of the product has been installed. For instance, if a Word 95 object is created and has the verbs Open and Edit, when it is then on a system that has Word 97, the Word 95 object should still have Open and Edit as its verbs.

Client/Workstation (UNIX only)

● SPR# QWUU3LZTJS - Fixed a problem where database icons were incorrectly appearing in the Workspace window after clicking the "people" icon followed by selecting the "people" view while in the Notes Administration function.

● SPR# SYPK3KBJ95 - It is now possible during localization to set the base font size to 12, which allows for a larger and more legible display of double-byte characters in the Domino Web Administration function.

● SPR# SJCE3DS9SQ - Fixed a problem on UNIX where all strings are now converted to LMBCS, thereby allowing for correct localization of window titles.

● SPR# MQUE3QYQB4 - Fixed a crash problem that occurred when using the Name Lookup and Address button options when creating a new mail message.
Database - QuickStart
- SPR# KSOA3M2T32 - Deleted the developer's name from the ACL and changed the Default and Anonymous access to Reader in the QuickStart database.

Database - Setup
- SPR# RSLF3M9PCQ - Fixed problems in Server setup when an existing ID file was used for the Administrator.
- SPR# JFEN3M7MEK - Fixed a problem in server setup when the Billing task was not enabled by default during Advanced Services selection in the installation process.
- SPR# WEBB3LJTH6 - Added checks in the Server Setup database to prevent the user from moving either forward or backward using the navigation buttons unless they correctly uncheck all of the options when prompted.

Database - Simple Web Pages
- SPR# CREG3NPSNK - Fixed a problem in the Web Pages Sample databases and templates that used semicolons as multi-value separators thereby causing semicolons (;) to be stripped from JavaScript code resulting in improper execution.

Database - Site Sample
- SPR# RSCZ3N3HJC - Fixed a problem in the Domino Site Sample databases where the documents were blank to a Web user after using the HTML Preview feature from edit mode in Notes and saving the document.
- SPR# RSCZ3N3HPS - Removed an unused LotusScript library from the Domino Site Sample databases.
- SPR# RSCZ3N3LGE - Corrected an erroneous comment about the permissions for the Handle New Account Requests agent in the sample Registration database.

IMAP Mail Server
- SPR# SJCE3J77W2 - Correctly displays parentheses included in folder names to a browser mail client.
- SPR# RWIS3M9UFB - Fixed a problem with the IMAP server intermittently returning an extra protocol response for STATUS commands, which used IMAP "literals," mostly with mailboxes containing spaces in the name. The extra response could confuse the IMAP client.
- SPR# GPFM3NNNH3, GPFM3NNNPN - Fixed problems with the IMAP server not handling mailbox names correctly if they contained "special" characters, such as a space, or non-ASCII characters, potentially causing problems with IMAP clients.
- SPR# BRIS3QAR34 - Fixed a memory leak that resulted in the message "Insufficient memory - index pool is full" when a large number of possibly idle IMAP users are on the server.
- SPR# BRIS3PFMFH - Improves the performance of the Convert utility when enabling mail files for IMAP usage.
- SPR# BRIS3PMSGK - Reduces the memory usage by each IMAP session which limited the number of active sessions.
- SPR# MGRS3PMS7J - Correctly returns the NO keyword at the beginning of the response to an IMAP search for an unsupported RFC822 field.
- SPR# BTAR3L74UC - Prevents duplicate inboxes from being created by an IMAP client during a Telnet session.
- SPR# MZET3LUP8M - Allows folders to be converted to IMAP-enabled folders without receiving errors about a response hierarchy.
- SPR# BRIS3PGTAY - Fixed an IMAP Server error condition under extremely high server load that resulted from a terminated IMAP session during an update. Subsequently, when the user attempted to open the Inbox, the message "Entry already in index" appeared.
- SPR# WLJG3QFJRC - Fixed a memory leak that caused an IMAP Server to run out of memory at 1710 users.
- SPR# WLJG3QHL4D - Displays short messages (less than 256 characters) correctly.

**Install**
- SPR# ASHH3JV96H - Correctly installs the Server Install Guide (SRVINST.NSF) on NetWare servers.
- SPR# KSTG3LZS6T - Removed the obsolete database, DOMGUIDE.NSF, from the server install kits.
- SPR# GZYN3DAGZB - Fixed a problem with the Uninstaller when there are multi-byte characters in the Windows System Registry.
- SPR# KHAN36HJWN - Fixed automated install to a file server so that it properly pays attention to the values of NOTDIR, NOTWORKDIR, and BASEDIR.
- SPR# KSTG3MNQH4, HNIO3MMDWK - Correctly includes the sample databases, faqw46.nsf, framew46.nsf, pagesw46.nsf, siregw46.nsf, site1w46.nsf, site2w46.nsf, and site3w46.nsf, and the template, mailw46.ntf, with the OS/2 mail server.
- SPR# HNIO3MN5AD - Prevents the installation of the obsolete template, smtpaddr.ntf, with the OS/2 mail server.
- SPR# ECAR3M3N9S - Fixed a problem offering the option to launch Notes after installing to a file server for network distribution.
- SPR# JMIL3MPJJM - Correctly installs IEDITFAX.DLL for the OS/2 client.
- SPR# MMGN3LZJUQ - Fixed a problem where unneeded lines were added to the Notes.ini file when installing a Notes client.
- SPR# RKAY3NSLL3 - Installs the Domino Server.Planner templates with the standard server installation.
- SPR# JTHN3M3RK9 - Changed the description of the Java support files in the Custom Install dialog to the appropriate description for R4.6x.
- SPR# MMGN3KX6XS - Adds descriptive Help text for SMTP support in Customized Install.
- SPR# LJWE3LLL4 - Creates only one notes.ini in the data directory during installation of a partitioned server (and no duplicate in the winnt directory)
- SPR# CSCN3M2K6U - Correctly shows the Notes Designer option in Custom Install after going to Standard Install and backing out.
- SPR# MMGN3M2JAF - Installs the selected Help database in all cases, leaving Help Lite as the default for clients.
- SPR# MMGN3M2L9J - Correctly installs all dictionaries when installing the client.
- SPR# LJWE3KVNXV - Correctly launches the setup program after installing a partitioned server.

Java
- SPR# DBRN3LRL98 - Fixed a problem with the RichTextStyle class in Java giving the incorrect color when specifying COLOR_LIGHT_GRAY.
- SPR# FPAI3LBKGL - Correctly includes .zip files to be Java archives when creating or refreshing Java agents.
- SPR# WEBB3MMNC - Fixed a problem with the Java Virtual Machine being unable to run in certain non-English language environments.
- SPR# MBEN3LJGAP - Allows Java agents to be called from other Java agents instead of displaying the error message, "Notes Error: JVM: Java virtual machine failed to start.."
- SPR# BKAN3MNLYE, PCHE3K9T9Q - Prevents the Notes client from hanging when opening documents containing multiple Java applets.
- SPR# MBEN3LEUYD - Enables the "Show Java Debug Console" menu item even if the "Enable Java applets" user preference is turned off, allowing users to see debug output from foreground Java agents even if they don't want Java applets to run.
- SPR# JCD3LRLH4 - Allows the creation of database and view links in rich text fields using Java.
- SPR# JCOR3QXPFL - Prevents a crash caused by Java processing a string greater than 22K in length.
LAN/WAN

- SPR# YSU13MGDHW - Allow mail to be delivered to secondary partitioned servers via RAS connection.

- SPR# SCOY3H4LX8 - Prevent a hang on TCP/IP connections on Windows 95 servers under certain conditions. This fix is required for the SMTP MTA on Windows 95 but is a possible problem for the database server and the LDAP, IMAP, and NNTP servers as well.

- SPR# BLOE3PCSUL - Provide a new Notes.ini variable for TCP/IP (TcpTrimServerNameForDNS=1) that removes spaces and collapses server names prior to DNS lookups, thereby causing the server name "Server A" to become "ServerA." Without this parameter, the default is to replace "Server A" with "Server_A" and the underscore is an illegal TCP/IP character.

LDAP Server

- SPR# BAKH3LTFJ - Fixed a problem with LDAP clients getting erroneous and inconsistent results when performing name and group searches.

- SPR# CDWT3MMHRE - Fixed problems with given name and group search results presented for LDAP clients.

- SPR# KSTZ3P7LVK - Fixed a problem where a Domino server lookup to a remote LDAP directory on behalf a Notes client timed out and failed.

- SPR# VDSE3NWTVS - Fixed a problem where LDAP only recognized the first twenty entries in a list, such as a group or a distribution list.

- SPR# BAKH3LMLPLV - Allows Netscape users to view certificates stored in the Address Book served through the LDAP server.

- SPR# VDSE3HSKHM - Confirms the reachability of an LDAP Server specified in a Directory Assistance document on startup of the LDAP Server. Previously, if an unreachable LDAP Server was specified, the client would receive the error "Failure to search <LDAP server name> due to LDAP error 'Partial results and referral received'(0x09)" when performing a search.

- SPR# VDSE3NDJDG - Fixed a problem with the return of an incorrect homepostaladdress and postaladdress if the address contains a number sign (#).

- SPR# VDSE3PWNX6 - Fixed a crash in the LDAP Server when processing a search request with a filter such as "((cn=groupname)(objectclass=group)) or "((cn=groupname)(objectclass=groupofuniquevalues))." Such searches worked correctly using (objectclass=group) and "((cn=groupname)(objectclass=groupofnames))."
LotusScript®

- SPR# WLII3KGR4E, WLII3KGQEK - Fixed a problem where the properties of the NotesRichTextStyle class could not be set on the Macintosh and UNIX platforms.

- SPR# MCLK3N4LH6 - Fixed a memory leak that caused "Error: Maximum number of memory segments that Notes can support has been exceeded" to be received when executing certain LotusScript on databases with a large number of documents.

- SPR# ICAO3NCKSP - Fixed a memory leak in LotusScript that caused a hang when creating several hundred documents, each with many items.

- SPR# EGIIE3RBQP3 - Added a new RunOnServer method to the NotesAgent class for Java and LotusScript.

- SPR# JFRK3PVMN9 - Fixed a crash when forwarding or replying to a mail message after opening the same mail file via LotusScript.

- SPR# DBRN3M7SGT - Fixed a problem where negative integers stored in a variantArray of a NotesItem were converted to unsigned.

- SPR# RBER3KRRBE - Fixed a problem with the GetDocumentByKey method on a NotesView returning one less than the correct number of documents if the collection size exceeded 16128 documents.

NNTP Server

- SPR# DMKA3LCR8G - Correctly displays the Approver's name in the Approved field in articles that are exported via NNTP in local moderated newsgroups instead of in a second From field.

- SPR# JCHN3JCSDD7 - Returns the correct response when an unsupported header is requested instead of "420 not article has been selected."

- SPR# TLIIY3L4MFK - Correctly logs disconnect messages for outgoing newsfeeds.

- SPR# TLIIY3NL5S95 - Fixed a performance problem when performing verbose logging on an NNTP server.

- SPR# JCAN3Q2L4G - Fixed a problem where the message "Bad Date Header" was displayed by the NNTP server after posting a new topic to a newsgroup that the originated on a NNTP server in a different time zone.

- SPR# DMKA3LYMAC - Provides support for the NNTP server on partitioned servers.

- SPR# JCHN3JYM2G - Fixed two problems that caused only the first article in a newsgroup to be displayed in a Domino NNTP server when using the Unix newsreaders, TIN and RTIN.

- SPR# TLIIY3NTR6 - Allows multiple site names to be configured for one remote site by specifying them in a new field in the NNTP Connection Document for PUSH and PULL-PUSH feeds called "Additional site names." These site names are hostnames and may include wildcards. This enhancement prevents news articles from being pushed multiple times to the same server since any article that has already been on a server with a hostname that matches one of these site names will not be transferred during a feed.
- SPR# TLIY3KGLMH - Prevents the storage of the Xref header for articles received from another NNTP Server as the headers are server-specific.

- SPR# TLIY3Q9Q2G - The default behavior of an NNTP PULL feed has changed to send the MODE READER command prior to sending the NEWNEWS command. To avoid sending the MODE READER command, set the NOTES.INI variable "NNTP_PullAsServer=1". This change obsoletes the NOTES.INI variable "NNTP_PullAsReader" and allows your server to pull from NNTP servers that require the MODE READER command for PULL feeds.

- SPR# TLIY3Q9UNK - Allows a server administrator to reset NNTP server feeds from the server console using the new command "Tell NNTP reset <server_name>," where server_name is the name of the remote server for the feed that you want to reset.

- SPR# AFU3KACJN - Allows the NNTP server to be configured to use nearly consecutive article numbers instead of numbers always separated by 4. To enable this feature, set the NOTES.INI variable NNTP_Consecutive_Article_Numbers=1. If you enable this feature, you must clear all NNTP newsreader caches that use your server by deleting all cached articles and then reconnecting to the NNTP server to retrieve the articles again.

- SPR# JCHN3JYRM4 - Prevent the NNTP server from exporting "ghost" notes to NNTP clients or servers even when requested explicitly by message id, returning, "This article is no longer available on this server," instead.

**POP3 Mail Client**
- SPR # MLOT3R8LF8 - Allows the POP3 Mail Client to be set up on Unix systems.
- SPR# BHAS3LZH2J - Prevents the error, "POP3Client: Unable to import Command or option is not recognized," from occurring on certain messages.
- SPR# MGRS3M2MXQ - Corrected a problem for Notes POP3 clients that resulted in no messages being sent once one message received an error as well as fixed the error message given for invalid recipient names.
- SPR# KTAA3MFCZF - Correctly decodes a MIME uuencoded attachment in the POP3 client.
- SPR# BRIS3QFKPZ - Prevents the possible erroneous reporting of zero messages and the inability to retrieve messages for a POP3 client when the user cache is enabled.

**POP3 Mail Server**
- SPR# BLOE3MWHJH - Prevents the failure of the POP3 Server to initialize with the error "POP3 Server: Initialization failure: No POP3 ports enabled" if upgrading from R4.5x.
- SPR# UCHO3JBQTW - Fixed a memory leak that prevented the POP3 Mail Server from running and displayed the error "Maximum number of memory segment that Notes can support has been exceeded."
- SPR# BRIS3NQMWW - Fixed a memory leak in the POP3 server when the user cache was enabled resulting in the message, "Local help is full."
- SPR# BRIS3NSPAS - Prevents a Panic, specifying BTFindKeyEntry, in the POP3 server under heavy usage with the cache enabled.
- SPR# JEIN3KR2HR - Correctly adds a period to the beginning of lines that begin with a period since POP3 mail clients strip leading periods.
● SPR# MGRS3KBQVB - Allows POP3 clients access to the remainder of their mailfile when there is a problem with a document.

● SPR# JFEN3MHJ4B - Allows POP3 mail to be delivered to a mailfile even if the R4.6 view is missing.

Server

● SPR# BAKH3KUQFC - Prevents a crash on the NetWare server during shutdown if any of the LDAP, IMAP, or NNTP server tasks is running.

● SPR# DWAS3Q2P5L - Fixed a crash in the Router when a document is larger that 64K.

● SPR# SSHE3Q2LNF - Fixed a problem that occurred on a database when a combination of the compact and fixup processes were being run. The error "NIF: DETECTED STORAGE CORRUPTION ERROR 'Attempt to use an invalid slot number" no longer occurs.

● SPR# LVAO3NARUR - Prevents a server crash caused by a user opening very large databases with lots of deletion stubs, resulting from the server trying to update the user's unread marks.

● SPR# JHUO3RN6ZD - Fixed a problem with the router keeping a thread open to a server that has gone down when it's in the process of transferring mail until it timed out on each message in the transfer queue. This prevented the mail from being delivered with a different route.

● SPR# ACOX3ESPAR - Searches only for an Escrow Agent in a server's primary Address Book.

● SPR# BRIS3NGR7K - Fixed a problem where converting mail files using a wildcard syntax (for example, mail*.nsf) did not work properly if the data directory was not located under the Notes program directory.

● SPR# JKAH3RBTBF - Presents more debug information for document updates by the Agent Manager when debugging is enabled on the server.

● SPR# MPEY3RKL3S - Allows LotusScript agents signed by Lotus Notes Template Development/Lotus Notes to run even if there is an invalid use of the wildcard character (for example, "Lotus instead of "/Lotus") in the "Run restricted LotusScript/Java agents" and " Run unrestricted LotusScript Java agents" fields in the server document in the Address Book.

● SPR# MZET3RDOEC - Fixed a problem in folder replication of IMAP-enabled mail databases that resulted in the error message "Document has been deleted" in the server Log.

● SPR# JPAI3RSHFP - Fixed a potential race condition during a clustered server startup where the cluster directory database (cldbdir.nsf) may not be completely populated that could affect cluster replication.

● SPR# SCON3HYS9Z - Fixed the Admin Program to delete any Program documents from the Address Book that contains a deleted server in the "Server to run on" field.

● SPR# MBOD3JJLBY - Prevents the access level of an Administration Server in the ACL of a database to be changed from Manager.
- SPR# MBOD3EUTQ3, MTHD3MVQBF - Prevents the Administration program from reporting errors having to do with users' Calendaring and Scheduling options when C&S is not enabled.
- SPR# JKAH3PVLNB - Fixed a problem where simple agents did not have consistent behavior with respect to remote servers.
- SPR# JKAH3QJR6W - Fixed a problem where background shared agents of all types did not work properly when accessing the same database where the agent resided.
- SPR# MZET3QPPEG - Fixed a crash producing a ripfile specifying ProfileCacheLookupDoc on heavily loaded servers. This problem has been seen on the HTTP Server but it is theoretically possible in any server process.
- SPR# BDAS3M8JQR - Fixed a problem with the Design task changing the Certificate Authority database to a template.
- SPR # JKAH3PVLR4 - Added additional debug information to Amgr statistics so that customers can match statistics to particular agents.
- SPR# JEIN3KVQQK - Correctly interprets internet addresses containing extended characters.
- SPR# ATHS3P5N83 - Prevents a server crash caused by a client accessing a very large database with many unread documents.
- SPR# MMGN3PWN5M - When performing Server Setup, if the Administrator's name contains a middle initial, it will correctly be reflected when the Administrator's ID file and Person document are created.
- SPR# ANOT3QPSTJ - Takes advantage of a new OS/2 thread management feature in Fixpack 29 to improve Domino server performance under heavy load.
- SPR# DWIN3QLNLN - Decreased the system resources used by the NNTP Server, the IMAP Mail Server, and POP3 Mail Server.
- SPR# JPAI3QMPCT - Allows the specification of NOTES.INI in the Startup Parameters when starting the Domino Server as a Windows NT Service.
- SPR# DKEY3QHH2Q - Fixed a crash with the message, "PANIC: MemFree: object still locked," on a server running in a cluster.
- SPR# MROE3RNTTHY - Allows Statistics and Events to be sent to a remote server's database on the NetWare Server.
- SPR# PTHN3RJL62 - Fixed a server crash on Solaris with the message, "PANIC: Cannot attach to shared memory region, due to insufficient access," resulting from a memory leak when attempting to connect to a remote server that is not responding.
- SPR# STE3N4DTD - Restores the feature that creates response documents showing the Approval or Disapproval action for deleting mail files in the Administration Requests database.
- SPR# MPEY3KBRU5 - Prevents the HTTP Server from duplicating the server's name in the Administrators field of the Server Document if it has to recreate webadmin.nsf.
Server (UNIX only)

- SPR# WLI3K2RGF - Fixed a problem on Solaris SPARC where running server agents no longer causes an insufficient memory error.

- SPR# PTHN3QPHRT - Fixed a problem where a crash occurred during the update process when run in a clustered environment where mail was being routed to each of the clustered servers.

- SPR# MBOD3QRUJT - Fixed a problem in the Web Administration database so that the error "Applet exception error" no longer occurs after clicking "Monitoring" and attempting to view disk space on UNIX server. Instead the NotesDiskApplet is correctly invoked.

- SPR# BMIS3MFSGZ - Fixed a full text indexer problem on AIX that occurred during load testing. The error "Periodic full text indexer terminating" followed by child processes timing out and generating errors, no longer occurs.

- SPR# MLKS3R6SPP - Fixed a problem on Solaris where the error "Fatal Error signal = 0x0000000b PID/TID = 2667 Freezing all server threads..." no longer occurs when the HTTP Web server is started manually.

- SPR# PTHN3PNSEJ - Prevents Unix servers from crashing when encountering invalid non-summary data in a note (for example, reporting PANIC: List Entry count in TEXT_LIST is invalid).

- SPR# SSHE3NYQZ2 - Fixed a problem on AIX where the creation of SSL certificates would crash the client if, at the time, the http server was running.

- SPR# MJUK3RDGVU - The freezing all threads error (Fatal Error signal = 0x0000000b PID/TID) no longer occurs when "quitting" the server.

- SPR# JKEY3PWTB3 - Fixed a LotusScript problem on AIX where using the "Dir Function" caused the system to hang.

- SPR# SSHE3PKKXZ & # SSHE3PUJ62 - The error "PANIC: Null object handle," followed by an http core dump no longer occurs during load testing.

- SPR# DMKA3RETGE - On Solaris/Intel opening certca.nsf database using a web browser now displays the correct information. Previously it was a blank screen.

- SPR# SYPK3L6JAY - When running Web Administration and using the "Monitoring" followed by "Alert" options, occurrences of errors, warnings and failures are now correctly located and identified for the user.

- SPR# KSMH3NYSFW - Multiple Java agents can now be run asynchronously on all platforms without causing the server to crash.
SMTP/MIME MTA

- SPR# MMFD3NS6B4 - Removed restriction requiring non-7-bit domain names to be uppercase in Person & Global Domain documents for SMTP MTA.

- SPR# MMFD3NZ4YF - Underscore in original domain name is no longer converted to space inbound.

- SPR# LACA3LSA4A - Sending mail to/from name that ends in trailing period no longer causes outbound converter address parsing error.

- SPR# CMAS3KFJSZ - Fixed a problem where an incorrect reason appeared in the non-delivery report when MTA is configured to use host relay in Connection document, and the mail is addressed to an incorrect (unknown) mail host.

- SPR# CBRR3LMQ55 - Prevents SMTP MTA from return receipt failures if .ini variable "smtpmta_convert_originator" is set.

- SPR# HAT3KELTE - Added an SMTP MTA NOTES.INI variable to change the TCP/IP port SMTP MTA listens on so that the MTA can run with 3rd party mail filtering tools on the same computer as the SMTP MTA. This is controlled by the notes.ini variable, SMTPMTA_IPPORT=<port number>. Example: SMTPMTA_IPPORT=26.

- SPR# HAT3KEM37 - Added an SMTP MTA NOTES.INI variable to change the TCP/IP address SMTP MTA listens on so that the MTA can run on a partitioned server. This is controlled by the notes.ini variable, SMTPMTA_IPADDR=<ip address>. Example: SMTPMTA_IPADDR=9.99.99.999.

- SPR# KHAD3MALMV - Fixed a problem where sending very large attachments (for example, 100 MB) from Notes to the Internet caused SMTP MTA outbound message converter to shutdown.

- SPR# KHAD3N9U2B - Improved performance of SMTP MTA when deleting delivery reports

- SPR# MCHT3CFR8K - Allows SMTP MTA outbound session handler tasks to terminate right away when attempting connections and "tell smtpmta quit" or "quit" server console command is issued.

- SPR# MCHT3JVRY9 - Fixed a problem where SMTP MTA appeared to loop when compacting its databases if the disk was full.

- SPR# MCHT3LAL9E - Fixed a problem where non-delivery reports in the case of SMTP relay were not being properly addressed by the SMTP MTA.

- SPR# MCHT3LUL5B - Fixed a problem where SMTP MTA failed to decode a BinHex4 encoded attachment received from Internet and it left the temporary file open. This caused any other inbound message that tried to use that temporary file to fail with an "error closing file."

- SPR# MCHT3MMNJW - Prevents SMTP MTA Outbound Message Converter from crashing when processing encrypted mail with bcc: recipient.

- SPR# MCHT3MQJS3 - Prevents Outbound Message Converter task from shutting down if outbound mail has empty From: field.
- SPR# MCHT3N2M3R - Prevents SMTP headers from not including filename= parameter when attachments are sent to the Internet.
- SPR# MCHT3NHNP3 - Prevents SMTP MTA working directory from getting deleted when processing encapsulated messages when directory is empty.
- SPR# MHAR3MHLTXY - Fixed an incorrect error message for DNS timeout.
- SPR# MCHT3NHNP3 - Prevents SMTP MTA working directory from getting deleted when processing encapsulated messages when directory is empty.
- SPR# MHAR3MWS6L - Allows SMTPMTA imsgcnv to prepend two digit Request for Comment 822 header dates with '19' to create four digit dates so that SMTP MTA is ready for year 2000.
- SPR# MIO3LRCFC - Allows SMTP MTA to convert 'Content-Type: text' in 'Content-Type: message/Request for Comment 822.'
- SPR# MSHO3HYJKX - Prevents failed Internet bcc: recipients in Non-Delivery Report to be substituted by To: recipients if outbound connection failed.
- SPR# NOPF3NHLX4 - Prevents messages received from the Internet and forwarded to the Internet from being received with the body deleted.
- SPR# DWUU3NHFBL - Prevents inbound SMTP MTA conversion process from hanging when processing an inbound mail with encoded subject split at a double-byte character.
- SPR# FDAT3PWCQQ - R4.6 SMTPMTA - SMTP MTA executes in Locale other than C for AIX.
- SPR# MCHT3MDRTJ - SMTPMTA inbound converter no longer hangs if more than one language parameter is configured.
- SPR# DWUU3M6D3N - Mail content configured as Users with and without Notes, transfer mode=8-bit, Language parameter=Taiwanese is now decodable by POP3 user.
- SPR# BRAR3KHJSQ - Lotus NSF attachments received from Internet are no longer misidentified in their pop-up description as text rather than Lotus Notes NSF.
- SPR# MCHT3QCLSB - SMTP MTA is no longer generating extraneous bcc: on inbound mail if SMTP Receipt to: and To: names match except for case.
- SPR# BRAR3P7NJ6 - SMTP MTA outbound Macintosh mail message with a file of format appledouble data and resource now has correct Content-Disposition.
- SPR# CLTG3PKTKX - Revised SMTP MTA to make sure that all SMTP sessions begin with HELO/EHLO command to be consistent with RFC 821.
- SPR# JSMH3NGQDY - SMTP MTA Work Queues Default Access (ACL) changed from Reader so they do not appear in Open DB Dialog Box so they can be read by users.
- SPR# SRAO3NBQ2Z - Removed requirement on UNIX to set Environment variable Notes_ExecDirectory to run the SMTP MTA.
- SPR# BRAR3MDT68 - Corrected problem that caused outbound mail from recipient with full name containing underscore to be un-replayable.
- SPR# CMOS3KFSRQ - Corrected a problem where a single nondelivery error message for multiple recipients within the to: field was being generated.
• SPR# MHAR3L4HE7 - Corrected Internet addresses with illegal RFC822 (STD 11) syntax from being sometimes generated.

• SPR# JVEI3RDT7 - Fixed a problem with the SMTP MTA crashing on AIX when trying to restart after performing housekeeping chores.

Template - Certificate Authority
• SPR# DSCT3NLN2Z - Fixed a problem where the use of spaces in the filename of the Certificate Authority database (for example, "cert authority.nsf") resulted in an error, "Error 404  Not found - file doesn't exist or is read protected [even tried multi]," in the browser when attempting to access the database.

Template - Collector Configuration
• SPR# MROE3MGPSK - Fixed a problem in the Collector Configuration database with three statistics, Mail.Dead, Mail.Waiting and Mem.Free that would cause a crash on Windows NT/Alpha and incorrect defaults on other platforms.

Template - Combined mailfile
• SPR# LWIL3M3JY9 - Fixed the broken gif icons in the Mail - Combined (R4.6) databases on OS/2 servers.

• SPR# DJOS3KWS5Q - Fixed a problem with the Freetime display and Recommended Meeting Times being incorrect for meetings longer than five hours for users with mailfiles based on the Combined Mailfile template.

• SPR# SCHN3RE8ZV - Presents the correct form to an International Notes user when creating a memo in the Drafts view of the Combined Mail Template.

Template - Discussion
• SPR# PLOI3JWRU3 - Fixed the newsletter agent in the Discussion - Notes & Web (R4.6) database to properly send to the requested users.

• SPR# PLOI3KPTZ2 - Fixed an erroneous error message in the Discussion - Notes and Web (R4.6) database when selecting the Remove Thread action in the Interest Profile document and not selecting anything to remove.

Template - Document Library (R4.6)
• SPR# DDUE3KXQD4 - Fixes the display of link hotspots when creating a new document in the Document Library database from the Web.

• SPR# CLIR3KULAQ - Fixed the "Mark/Unmark Document As Expired" agent in the Document Library database to leave a document's unread state alone.

• SPR# DDUE3KQP75 - Fixed a problem with the Document Library template so that a user is required to specify the Archive database path and filename when saving an Archive Profile.

Template - Events
• SPR# MROE3MGN28 - Fixed a problem in the Statistics and Events database where several forms displayed the Save button and the Edit button before the document was in edit mode.
Template - Frameset
- SPR# RSCZ3NDRRG - Fixed the Previous, Next, Expand, and Collapse hotspots in the Site Map in the Frameset template and in the Frameset database.

Template - Mailfile
- SPR# GZYN3FHBWH - Fixed a problem where dragging and dropping a repeating calendar entry to change the time caused the repeating meetings to have the wrong time.
- SPR# KGRY3E6NHQ - Put Notes mail memos, which are converted to tasks, correctly in the To Do section of Organizer.
- SPR# CBRN3FAL77 - Allows the creation of greater than seven repeating meetings when they repeat Monthly by day for every month on the last given weekday, like on the last Friday.
- SPR# PVAI3JLMVK - Makes it possible to use Actions - Other - Propose alternate time/date in C&S when in the local yet connected mode of mail.
- SPR# PVAI3JLLN8 - Prevents obscure LotusScript errors when attempting to perform certain C&S functions that require server resources when working in the local yet connected mode of mail.
- SPR# BLEE3JFCDS - Gives the user the “Change Repeating” choice dialog every time a repeating C&S entry is moved.
- SPR# GRN3HPLGV - Correctly sets the alarm time on repeating C&S events when the user changes it from the default.
- SPR# APAI3EHU4Q - Fixed a problem with the C&S Repeat rules in that the Repeating Information showed one time less than requested.
- SPR# APAI3FHKZE - Corrects a problem when repeating C&S events are moved by dragging and dropping them to a different day and you choose to change all entries.
- SPR# DCZI3HV7LV - Fixed problems with changing the date in a repeating appointment and selecting "All previous" or "All future" incidences.
- SPR# ERIA3E2UCS - Fixed a problem with C&S Repeat rules when the repeat time is the 31st of the month.
- SPR# MGRT3EMRCA - Correctly observes the Calendar Profile setting, Autoprocess Meeting only from the following people, when the specified person is in a different mail domain.
- SPR# RJAN3JUPMN - Fixed the display of a resource response to a repeating C&S entry in the view to not show "ResourceName can attend."
- SPR# DWIN3ECSXD - Fixed a problem with too many instances of a multi-day/week repeating meeting being created.
- SPR# CLIR3G3KTV - Fixed a problem with an existing calendar entry being updated incorrectly when the date and time were deleted and the document saved.
- SPR# APAI3FLPSW - Leaves a C&S entry in a user's calendar after s/he changes it from an invitation to an anniversary or an event after sending a cancellation notice to the invitees.

- SPR# BLEE3LRCJ2 - Prevents receiving the LotusScript error, "Overflow (CopyChanges)," when dragging and dropping a repeating meeting to a new time in the two-day view.

- SPR# APAI3JFSWA - Prevents the LotusScript error, "Variant does not contain an object," when the chair views the invitee responses and two users have delegated to the same person.

- SPR# JSAE3KPNQR - Prevents an unrecoverable LotusScript error, "Variant does not contain a container(post recal)," when attempting to find a resource for a meeting inadvertantly scheduled in the past.

- SPR# JSMH3J8HHD - Prevents the deletion of the time for a calendar entry that has a time range.

- SPR# MZET3RFQKG - Fixed an error in the AutoProcessNotices agent resulting the message, "Subscript out of range," under certain conditions.

- SPR# RJAN3JUPL2 - Corrects display problems in the Meetings view when resources respond to an invitation to a repeating meeting.

- SPR# MMGN3LUNE4 - Fixed the three mail templates so the option for "List in Database Catalog" is not set by default when a mail database is created.

- SPR# JKEN3MAL4E - Updated the About documents for the mail template and the Web mail template.

- SPR# HPES3NPSDU - Allows the time to be edited in a Reminder calendar entry created by a Web user.

**Template - NNTP Discussion**

- SPR# DDEY3JUGHM - Fixed a problem in the NNTP Discussion database that prevented user from correcting the name of a newsgroup in the database profile after receiving the error, "Invalid characters in Newsgroup name."

- SPR# DMKA3KWQWA - Allows the moderator of an NNTP newsgroup to cancel the approval or rejection of an article.

- SPR# DMKA3LBPJU - Allows a new moderator of an NNTP newsgroup to accept or reject documents added to the Moderated view in the NNTP Discussion database before the user was the moderator.

- SPR# DMKA3LYHY7 - Allows a user to specify an archive location when attempting to set up a new archive profile document as required in the NNTP Discussion database.

- SPR# DSCZ3KXLX8 - Includes the Edit database profile in the Actions menu in all views of the NNTP Discussion database.
• SPR# KTAA3J4TCV - Moved the Previous Document and Next Document buttons to the action bar in the NNTP Discussion database.

• SPR# LDEY3LURWF - Changed the All view for an NNTP Discussion database to be sorted by thread instead of by date.

• SPR# TLIY3LDT7D - Correctly hides the Approved button in the action bar once an article is approved in the NNTP Discussion database.

• SPR# TLIY3NCKXD - Correctly displays the newsgroup name to a Web user viewing an NNTP Discussion database.

• SPR# GROS3NZKLX - Prevents the use of Parent Preview when in the Moderated view of an NNTP Discussion database.

• SPR# DMKA3LYJML - Prevents a Web user with the correct no access message when attempting to delete a document in an NNTP newsgroup database when the user is not the author.

**Template - Personal Address Book**

• SPR# CRAO3MWGXM - Fixed a problem in the Business Card (Person) form of the personal Address Book where, if the names were stored as separate fields, and a Company name was entered, the name entries were erased.

• SPR# JROL3NALB9 - Changed the Location record text for the Retrieve/open pages in the Internet Browser section for more clarity.

• SPR# MKIR3NCML9 - Fixed a display problem in the Business Cards view of the Personal Address Book where the address was not updated correctly after it was changed.

• SPR# FGRN3NMTF9 - Prevents an empty Business Card from being created in the Personal Address Book when the user selects No in response to "Do you want to save this new document?"

• SPR# FGRN3NQJZ7 - Displays the Email address field of the Business Card entry in the Personal Address Book for a person with a hierarchical name in the correctly abbreviated format.

• SPR# SONL3L6MEP - Provides an Action button in the Person record of the Public Address Book to remove selected X.509 certificates.

**Template - Personal Journal**

• SPR# ISTO3FGP88 - Corrected misspelled field name in the Journal Entry form of the Personal Journal Template, changing "ModifiyDisplay" to "ModifyDisplay.

• SPR# RJAN3QAMP9 - Prevented the Doc info Action from updating documents in the Personal Journal.

• SPR# ECOO3BBTNT - Displays the correct error message, "You must select a document," when selecting the Doc Info Action button in the Personal Journal when it contains no documents.
Template - Personal Web Navigator

- SPR# KSOA3FAR4T - Correctly position CNet as the second choice in the Preferred Search Engine listbox in the Internet Options page under Actions - Internet Options on the Personal Web Navigator database.

- SPR# WEBB3M7MKT - Greatly improved the performance of deleting documents in the Personal Web Navigator database.

- SPR# KSOA3LLRT3 - Fixed a problem where opening a Web page containing a Java applet using the WebBrowserForm resulted in the limit of nine open windows (all blank) and an error before finally opening the page in Microsoft Internet Explorer.

Template - Public Address Book

- SPR# AVOI3QGRXP - Provides the option to delete the corresponding user account on a Windows NT server when an administrator is deleting a person from Domino Address Book using the Delete User action button.

- SPR# RWEL3N4H2N - Allows Web Server Administrators to edit Server documents in the Address Book.

- SPR# MPEY3QXP72 - Action buttons that allow you to Delete and Refresh Person, Server, and Group documents will only appear for Web Administrators and not for Notes clients.

- SPR# TNIT3NLTHQ - Fixed the Server Connection record to display the Routing Cost field when appropriate.

Template - Resource Reservations

- SPR# SKLZ3MDGSV - Fix the Purge agent in the Resource Reservations database to purge reservation that are more than two days in the past.

Template - Server Certificate Administration

- SPR# SONL3NX5HC - Fixed the keyring administration view so that the trusted root column does not display NO for signed certificates.

- SPR# SONL3KPXNG - Displays the size of the key in a server certificate on the Server Certificate Information document in the Certificate Administration database.

Template - Server Web Navigator

- SPR# RNAO3MHQN5 - Removed the 4.5 from the title of the Server Web Navigator database.

- SPR# RMAS3KKXTM - Fixed the Refresh agent in the Server Web Navigator to delete replication conflicts.

Template - Statistics Report

- SPR# MROE3QGS4B - Shorten the field labels in the Comm Report form in the Statistics Report template so that they can be edited.
Template - Web mailfile

- SPR# MQUE3QQQ7D - Fixed a problem with free time lookup not working for Webmail users.
- SPR# HPES3M3SWZ - Sets the Web Memo form to be the default form in the web mail template.
- SPR# APAI3M2PJA - Corrects a typographical error in the Rescheduled message for meetings in the Web mail template.
- SPR# DJOS3LXLUP - Extended the default meeting duration limit from 300 to 1425 minutes for calendar entries created by a Web user.
- SPR# JKEN3KMS9L - Fixed the Status Update in a Meeting Confirmation to reflect the correct name for "Delegated to" when delegated by a Web user. Previously, it appeared that the invitee delegated the meeting to himself.
- SPR# APAI3FJUCN - Fixed a problem with the duplication of items in the Detailed description field when receiving a response to a meeting invitation from Web user.
- SPR# APAI3J5RLZ, APAI3FKRHM - Fixed a problem with a Web user's response to a delegated invitation being updated incorrectly in the Chairperson's calendar entry.
- SPR# HPES3FPP7F - Allows various agents and views to work correctly when the mail database has spaces in its pathname.
- SPR# MQUE3QWMPC - Allows Web users to update their Freetime information through the User Preferences form in their mail database.

Viewers

- SPR# - ABAN36JUEK, CKAC33ZSD5, DQUY3GZR7W, DROS3K9LH3, HNIO3G895S, HNIO3G8AB7, JHOD3KHNEQ, JCRE3JCH4E, JTHN34DL5C, KISA3FXG2U, KISA3FY63S, KGUT3E3J57, MHAC3KWMV9, PLAE3GMRKQ, PLAE3H9PDS, PLAE3H9PHM, PLAE3HQNWA, PLAE3HSMPT, PLAE3JDMWJ, PLAE3JRLE8, PLAE3JSNQ4, PLAE3JSNVL, PLAE3JSNY6, PLAE3JSP89, PLAE3XXRE5, PLAE3NXS6T, PLAE3NJNUE, PLAE3NJNXX, PLAE3NPBKL, PLAE3NPJDMU, PLAE3NPJG8, PLAE3NPJPKL, PLAE3NQLL6, PLAE3NQLL9, PLAE3NQQRA, PLAE3NQSRG, PSAN3J7K9U, SAN3M8KZX, LAE3HND5H, SMAR3FGU96, VPAA3FALJN, PJAN3H9TL7

Notes 4.61 uses the latest viewer technology (version 5.1.1) from INSO Corporation. The new version of the viewers contains many improvements, provides some critical bug fixes, and adds support for HTML, Office 97, Lotus SmartSuite 97, WordPro 96, RTF, PDF, PCX, and CCITT Group 3 Fax.

The implementation of the 5.1.1 viewers introduced some new issues that may not have been present in earlier versions of the viewers. Lotus is currently working with INSO on solving these issues. Below is a list of known issue areas:

- Occasional hang/performance issue in Excel spreadsheets (for example, opening some spreadsheets causes Notes to hourglass with no recovery).
- Inverse printing issue with some graphic formats (for example, some Freelance and PowerPoint documents appear OK in the viewer but print inverse).
• International users only: separator issue with spreadsheets (for example, the general format for spreadsheets inserts an incorrect separator -- 1.23 instead of 1,23).

• Problems with the display of graphics (for example, charts) in Lotus and Excel spreadsheets.

• Some extended ASCII characters do not appear correctly.

• TOC/Indices might not appear or print in their entirety in the word processing viewers.

**Web Administration**

• SPR# SYPK3L6JAY - Fixed several problems in the Web Administration tools to allow for use in non-English environments.

• SPR# LWIL3M6QYL - Correctly displays the button options (for example, the Monitoring buttons in the Monitoring Mail view) in the Web Administration database.

• SPR# MPEY3LQV9B - Prevents databases that have the option, "Show in 'Open Database' dialog," unchecked from being displayed to a Web Administrator.

• SPR# MPEY3LRQ3C - Allows more than one Web Administrator to use the live remote console feature against a given server at the same time.

• SPR# MPEY3NQKVT - Allows the correct behavior of the Java applets in the Web Administrator when administering a partitioned server.

• SPR# MPEY3LQVKP - Allows a Web Administrator to view the complete list of databases on a server. Previously only the first one hundred alphabetically were listed.

• SPR# MBOD3P2MDL - Fixed a problem when administering Roles in a database ACL using the Web Administrator in that the "Rename" and "Remove" buttons are now disabled if there are no existing Roles.

• SPR# MBOD3JVL9J - Displays the Domino.Command.RequestCert statistic on the Domino HTTP Commands graph when Statistics Monitoring is selected by the Web Administrator.

• SPR# MPEY3K9T6S - Prevents the Remote Console on the Web Administrator from hanging when the display contains more than 32K of data after several requests are made.

• SPR# MPEY3RDS48 - Provides the Save and Close Action button to Web Administrators when editing documents in the Address Books.

**Web Navigator**

• SPR# JROL3NAT34 - Provide the proper support for the Microsoft Internet Explorer V4 "Work Offline" feature when the "Notes with Internet Explorer" browser option is selected.

• SPR# DSCZ3K9PSK - Correctly parse the subject line of mailto URL's passed to Notes from a browser.
Web Server

- SPR# MKIR3MVMV6 - Fixed a memory leak when the SSL handshake fails between two servers. Also added an appropriate error message to the Server log.

- SPR# JCHN3M6QF2 - Prevents a possible denial of service problem on the Domino HTTP server.

- SPR# JCHN3MDKZE - Prevents a possible denial of service problem on the Domino HTTP server.

- SPR# JCOS3KXGBU - Fixed a problem when using a browser to open databases with certain specific numerical names caused an "Error 404: File does not exist."

- SPR# CRAO3PSL29 - Prevents a subform from displaying twice in read mode when viewing a document with a browser if a File Upload Control precedes the subform.

- SPR# MLED3JVLJ3 - Correctly displays background colors and images for About and Help documents to a Web browser.

- SPR# NBAR3MKM3X - Allows shared folders to be chosen in the list of "views" when the "Launch first document in view" option is chosen in the Web Open Launch properties of a database.

- SPR# MLED3MGKQG - Stops checking for anonymous access to a database on a server when previewing it; only check anonymous access when the database is local.

- SPR# MKEN3LKKCV - Correctly treats DNS names as case insensitive when filtering log entries.

- SPR# RCHR3L3FPR - Fixes various connection management issues so that the HTTP server behaves as it did in Release 4.5x with regard to HTTP 1.0 browsers.

- SPR# NBAR3KNREG - Prevents users with author access but does not create document access from accessing a form and composing a document only to be told s/he has no access when saving the document.

- SPR# MLED3HYN9B - Prevents the display of "Private on first use" folders to web browser users.

- SPR# YUMA3HSQCK - Allows the use of views and navigators with the same name.

- SPR# MQUE3JCKL2 - Allows the use of dot (".") in databases accessible by the HTTP server.

- SPR# ROBT3KBRRX - Prevents the improper evaluation of hide-when formulas, causing errors if the formulas had errors in them, when using a Web browser.

- SPR# NBAR3M9UMA - Correctly evaluates the HTML attributes formula of a field against the document, not against the field in the form through which it was composed.

- SPR# PLOI3L6LR9 - Correctly uses the $$ReturnGeneralError form when a Web user gets the error, "Search string is empty," after selecting Search with nothing in the search bar.

- SPR# MKEN3MGTRV - Fixed a problem that caused intermittent crashes on the notes.net site.
- SPR# HPES3KWT7K - Prevents junk characters from being displayed on the Freetime Search page when using Netscape Communicator.
- SPR# DJOS3KNLCM - Correctly handles time formatting that is different locally from that on the user's mail server when doing freetime lookups using a Web browser.
- SPR# MJAS3KENLR - Correctly uses the server-wide Mapping Error Messages document specified in the Domino Web Server Configuration database if the custom document for a virtual server cannot be found.
- SPR# JCHN3LSJFP - Correctly stores the character set information for Web pages stored in the cache.
- SPR# NBAR3M3HBL - Adds a sequence number to editing URLs so that browser back buttons do not get confused when there are input validation failures and allow the user to back up and fix the problem.
- SPR# MJAS3KAJ67 - Prevents redirections to the same URL, which caused certain actions to display blank pages with just the URL instead of what was already properly displayed.
- SPR# NBAR3FC5GM - Prevents Web browsers from jumping back to the top of the page each time a collapsed section was expanded.
- SPR# WRAE3N2T4D - Correctly displays embedded images (graphics stored in a form) properly to Web browsers.
- SPR# RSPS3MPPAE - Removes the limit of 128 URL redirectional documents on an HTTP server. Previously an Error 404 was returned.
- SPR# JCHN3NHL9N - Correctly supports HTML attributes on radio buttons and checkboxes on forms.
- SPR# JCHN3MXKWY - Added Maximum lines per view page, Default search results limit, and Maximum search results limit to the HTTP Server parameters in the Server document to give administrators control over HTTP Server performance.
- SPR# MKEN3NHSOG - Increases performance of the HTTP server when logging is disabled.
- SPR# IGRH3J6T84, RCHR37WH59 - Fixed a problem with the HTTP server not handling requests with no trailing "/" on the URL of the home directory properly, resulting in broken links and images not being found.
- SPR# RSHI3J27MA - Fixed a problem with two hypertext links being shown for any shared view which was aliased with any of the special views, ($InBox), ($Drafts), ($Sent), ($All), ($Calendar), ($ToDo), ($Meetings) and ($Trash), when the database was viewed using a Web browser.
- SPR# KGIS3LDCUF - Allows the Netscape Certificate server to sign Domino Server certificate requests.
- SPR# KGIS3NXRST - Fixes the HTTP server to report the correct value for HTTPS_KEYSIZE instead of always reporting 128.
- SPR# SONL3NY3FZ - Allows the merging of all server certificates into a key ring that is signed by trusted root certificates.
- SPR# WEBB3LQR3Q - Correctly displays navigators created from GIF files with transparent backgrounds to both Notes users and Web browsers.

- SPR# HPES3L3TSE - Fixed the Address fields and freetime lookup screens to display correctly abbreviated hierarchical names on the Web.

- SPR# JKEN3K7S44 - Displays freetime information the same way in a Web browser as it is displayed in Notes.

- SPR# SSHE3NBMRN - Fixed a problem where the HTTP server on UNIX servers was incorrectly creating child processes.

- SPR# JCHN3NBSGY - Added a new Notes.ini parameter, DominoMaxPostDataInKbytes, which allows the Domino administrator to limit the size of a single POST request to the HTTP server. The default size, if this ini variable is not set, is 32K.

- SPR# MKEN3NZRZ7 - Fixed a problem where, if the HTTP server encountered a fatal error on startup, the HTTP server would exit without notifying the Domino server and any resources allocated to the HTTP Server were not freed properly. This problem was partially addressed for the UNIX platforms in R4.6a.

- SPR# AWHN3QZLVN - Provided a new Notes.ini parameter (WebNameAuthentic=1) that requires the HTTP server to use the old (pre-R4.6.1) authentication method, which is to use the exact name supplied by the browser for security validations. Otherwise, the server uses the new default authentication method, which is to match the browser supplied name to a person record in the server's Address Book and then use the first name listed in the User name field for subsequent security validations.

- SPR# MNAS3R8RN7 - Fixed an HTTP server crash due to uninitialized memory when a request to run a CGI script was submitted after a previous request to run a CGI script failed.

- SPR# CBAN3R7R5N - Fixed a problem that resulted in the HTTP server hanging at 100% CPU usage when a Web user accessed a document containing a text field that contained a formula, which resulted in the field being converted to rich text (for example, when the field was larger than 15K).

- SPR# SSHE3PWMLV - Fixed a memory overwrite problem that caused the HTTP server to crash.

- SPR# MKEN3RCSUC - Fixed a problem in the HTTP server when authorizing access to a database that under heavy load could cause a crash.

- SPR# JCHN39DRNG - Fixed various problems with list fields when using New line and Blank line as separators.

- SPR# MJAS3K3M7L - Fixed a problem with the URL to return to base state losing its arguments when using the Column property, "Click on column to sort."

- SPR# WEBB3LSCTL - Fixed a problem with the display of bulleted text in a rich text field when using a Web browser.
- SPR# RCHR37MLVN - Fixed three problems with the display of categorized views with column totals to Web users: excessive indentation, the column total appearing in the wrong column, and displaying a <blank> in a row of categories.

- SPR# NBAR3NCQ74 - Fixed a problem where some invalid commands were being accepted and defaulted to another command thereby misleading designers.

- SPR# RCHR3DAJYT - Correctly reports an error when a Web user enters the incorrect type of data into a number field instead of truncating the data and accepting it.

- SPR# MJAS3K9L9V - Prevents a crash of the HTTP server when using sections in customized response forms.

- SPR# JCHN3NWQWB - Correctly produces closing </HTML> and </BODY> tags.

- SPR# NBAR3NDJRG - Prevents the use of @Newline in formulas from truncating output to a Web user.

- SPR# RSCZ3NDRH9 - Added the TARGET attribute, "_self," to the HTML generated for view twisties for framesets.

- SPR# NBAR3LLP36 - Improves the performance of view loading by providing HEIGHT and WIDTH attributes for gifs.

- SPR# JCHN36BM78 - Properly issues an anonymous user an authentication challenge instead of an error message, "Illegal arguments exception," when a view has a Read ACL.

- SPR# PTAM3NSQXC - Correctly honors the "Mark a database out of service" option on a clustered server for Web users.

- SPR# NBAR3NHSUH - Fixed a problem with improper cache handling for commands, thereby impacting performance.

- SPR# EPSR3NYR5F - Allows Web users to download embedded documents from Lotus 123, WordPro, ScreenCam, Freelance, and Microsoft Word.

- SPR# JCHN3P5P76 - Fixed an HTTP server crash with the message "PANIC: LookupHandle: handle not allocated" resulting in a Domino server hang due to the use of an invalid hide-when formula in an action button accessed thru the HTTP Server.

- SPR# MJAS3PKM5F, MJAS3PKLEJ - Ignores errors in a hide-when formula (defaulting to false) instead of returning "HTTP Web Server: Lotus Notes Exception" to a Web user or crashing. This problem was introduced in R4.6.

- SPR# LBRD3PER8D - Returns the information about the total number of documents found in a search to a Web user. This feature is being investigated for implementation in the Notes client for the next feature release.

- SPR# JCHN3K2PJ6 - Fixed a problem with the incorrect rendering to a Web user of text items rich text fields in a table.

- SPR# NBAR3PWJCB - Improves the performance of the HTTP server by caching more pages in-memory, including pages with @formulas, documents with readers fields, etc.
- SPR# KG153MXL4Q - Reports a consistent error message regarding product and version number when running CGI programs.
- SPR# RCON3Q9L4Q - Fixed a problem with a page containing more than ten collapsible sections for Web clients preventing the tenth, twentieth, etc. sections from expanding correctly.
- SPR# MLED3KFS5M - Corrects the inconsistent behavior of design elements marked as "Do not show this design element in menus of Notes R4 or later clients" for Web users.
- SPR# DANO3M8NF3 - Stops the HTTP Server correctly when an invalid key ring file is detected and the primary TCP/IP port is disabled instead of terminating abnormally.
- SPR# JCHN3H2H53 - Prevents document creation when less than the expected data is posted by a Web user.
- SPR# AVOI3PVVHS - Prevents a crash of the HTTP Server when processing certain named text styles.
- SPR# TJRY3JFJ42 - Prevents the display to a Web user of the word, "<blank>," in the last column of a view that has more than one categorized column and a total column when the categories are collapsed.
- SPR# MKEN3P2M2, KG153PVQ2B - Reports the correct version of the HTTP Server (the same as the Domino Server) in outgoing HTTP headers, outgoing HTML files, when using the CGI variable, Server_Software, and on error pages generated by the HTTP Server.
- SPR# CBAN3Q2L88 - Reverts the change in the HTTP server that was misinterpreting a semicolon in URL’s which contained a CGI executable argument to the correct behavior found in R4.5x.
- SPR# KUMA3K9AMK - Fixed a problem where the HTTP Server did not display the file name for a database containing multi-byte characters for OpenServer.
- SPR# JWAH3MHLQU - Prevents databases and templates in domino\cache directory from getting compacted and indexed.

Client, Designer, Server

4.6.1a Quarterly Maintenance Update (QMU)

Lotus Notes and Lotus Domino Release 4.6.1a
Quarterly Maintenance Update (QMU)

All Platforms

Client
- SPR# MOBN3SPVM3 - Prevent the incorrect display of the April calendar (date was off by one day) in all calendar controls in the International version. This problem was introduced in R4.5.4 and R4.6.1. [4.5.5, 4.6.1a, 4.6.2, 4.5.4c]

LS:DO
- SPR# SAUA3SBQMU - Fix a large performance degradation in table lookups in LS:DO that was introduced in R4.5.4 and R4.6.1. [4.5.5, 4.6.1a, 4.6.2]
Web Server
- SPR# SMDN3PLM4W - Fixed a problem which caused Web client authentications to fail if the user’s Person record was in a secondary address book. This fix also improves performance when searching several address books during any authentication. [4.5.5,4.6.1a,4.6.2]

UNIX Only

Calendaring & Scheduling
- SPR# MLOT3MNK3C - Prevent the display of debug statements on Unix systems when using the Find Free Time feature. [4.5.5,4.6.1a,4.6.2,4.5.4c]

Client, Designer, Server

4.6.1b Quarterly Maintenance Update (QMU)

Lotus Notes and Lotus Domino Release 4.6.1b
Quarterly Maintenance Update (QMU)

All Platforms:

Client
- SPR# MSWN3RKHSD - Fixed a problem which prevented administrators from creating replica copies of databases using the Database Tools feature of the Administration Panel. This problem was introduced in R4.5.4 and R4.6.1. [4.5.5,4.6.1b,4.6.2]

IMAP
- SPR# MSAN3SX3XW - Fixed a crash in the IMAP Server when a message contained too many entries in the To: field. [4.6.1b,4.6.2]

LAN/WAN
- SPR# PHAN3S8V7Z - Fixed a problem in the X.PC driver with the following error being reported in the Notes Log, \"Bug in Pkt_st: State = 0, Event = 4.\" This fix is needed by both the client and the server software. [4.5.5,4.6.1b,4.6.2]

Template - Mailfile
- SPR# COY3N5QQZ - Fixed template use authorization stamp on the MAIL46.NTF and MAILC46.NTF templates so they can be used by the Notes Mail client. [4.6.1b,4.6.2]

Web Server
- SPR# CBAN3NQ2H2 - Allow the HTTP server to begin responding to requests immediately after starting. Previously, under certain configurations involving large numbers of virtual servers, there was a long delay before requests were served. [4.6.1c,4.6.2]
- SPR# KGIS3TBQHJ - Fixed a potential denial of service attack in the HTTP Server. [4.6.1b,4.6.2]
- SPR# DCUM3RSJ84 - Provide two new notes.ini variables to enable server administrators to have more control over how Web users authenticate. [4.6.1b,4.6.2]

NoAmbiguousWebNames -- When this variable is set, the Web user name will have to match one and only one name in the Address Book before a match on the HTTP password in the Person Record is attempted.
NABWebLookupView=ViewName -- Server administrators can now design a new view in the Address Book to be used to match a Web user's name with the Person Record names. By default we use the Name column of the $Users view to look up the name and the formula for this column includes a variety of names which are used by other Domino server processes. We will now allow server administrators to construct their own formula in the Name column of their own view.

UNIX Only:

Java

- SPR # DBRN3SJRKZ - Correctly export the new recycle( ) method added to the Notes Java classes on Solaris. [4.6.1b,4.6.2]

Client, Designer, Server

4.6.1c Quarterly Maintenance Update (QMU)

Lotus Notes and Domino Release 4.6.1c
Quarterly Maintenance Update (QMU)

All Platforms:

LotusScript

- SPR# CRAO3T4HLA, BBRZ3T7S6L - Fixed a problem with the inability to open documents containing an embedded object created through LotusScript. This problem was introduced in R4.6.1. [4.6.1c,4.6.2]

Server

- SPR# SSHE3P5SXT - Provide the capability for system administrators with only Author access to the Address Book to modify certain fields which were previously restricted to Editors or above. This capability involves changing the design of the Address Book and is not recommended. [4.6.1c,4.6.2]

Web Server

- SPR# CBAN3NQ2H2 - Allow the HTTP server to begin responding to requests immediately after starting. Previously, under certain configurations involving large numbers of virtual servers, there was a long delay before requests were served. [4.6.1c,4.6.2]

- SPR# KGIS3SPM86 - Fixed a problem with redirected virtual HTTP servers returning incorrect URL information. This problem was introduced in R4.6.1. [4.6.1c, 4.6.2]

- SPR# MKEN3U2UHL - Fixed a problem where welcome pages for virtual hosts were ignored and users were always redirected to the home page of a virtual server, if one was defined. This problem was introduced in R4.6.1b. [4.6.1c,4.6.2]

- SPR# BSAD3CURQ2 -- Fixed a problem where submitting a form from Microsoft Internet Explorer would sometimes cause an erroneous "Server connection was reset" error to be reported. This problem was fixed in R4.5.1 and reintroduced in R4.6.1. [4.6.1c,4.6.2]
Client, Designer, Server

4.6.1d Quarterly Maintenance Update (QMU)

Lotus Notes and Domino Release 4.6.1d
Quarterly Maintenance Update (QMU)

All Platforms:

Client

- SPR# MCLK3UVGY5 - Fixed a problem with Node installs requiring that users have write access to the fileserver from which they were installing; now only read access is required. [4.6.1d,4.6.2]

Server

LDAP Server

- SPR# BAKH3UPGNU - Fixed a problem which prevented LDAP entries in the Master Address Book from being found for Notes or for Web clients. This problem was introduced in R4.6.1a. [4.6.1d,4.6.2]

Server

- SPR# MGAN3U8NSP - Allow the same server name as the server specified in the Agent Schedule dialog to be specified in the Copy to Database Simple Action instead of requiring the use of "Local." [4.6.1d,4.6.2]

- SPR# SSHE3NJVSA - Fixed a problem that caused NIF storage corruption errors in the ($ServerAccess) view of the Address Book. [4.5.5,4.6.1d,4.6.2]

- SPR# DKEY3UPHEL - Fixed a server crash with the error message "Invalid lookup handle" which occurred intermittently on servers configured with Directory Assistance. [4.6.1d,4.6.2]

- SPR# MBEN3UWKQB - Fixed inconsistencies in the security model for background Java agents as compared to background LotusScript agents. [4.6.1d,4.6.2]

Client, Designer, Server

Notes and Domino Release 4.6.2 features and enhancements

Important Changes in Web Authentication

When Domino authenticates a user from the Web using "Basic" authentication (via the Name and Password dialog box), the Domino server searches the Public Name and Address Book using the $Users hidden view to find any names that match what the user entered. For ease of use, the $Users view will match on several variations of the name, so users could enter just their "first name" or "last name", "short name", "common name", and full "hierarchical name" in the Name and Password dialog box.

In all cases, if the user has a "hierarchical" name (John Smith/US/Acme) this is the recommended name that should be used in database ACLs and Groups for authorization. This provides better security than using the common name alone.

Also with Domino 4.6, there are two ways of using multiple NABs to authenticate users via HTTP.

1. **Cascaded NABs via NOTES.INI**: With Release 4.6.2, only the primary NAB will be used for HTTP authentication. For example, if you had the line "names= names, names2, names3" in the NOTES.INI, only users in the first NAB (NAMES.NSF) would be authenticated.
2. **Master Address Book:** With Release 4.6, the Master Address Book (MAB) could be used to configure several NABs. All of these NABs would be used for HTTP authentication. However, with Domino 4.6 you are able to mark the NABs as "trusted" or "untrusted." Only the SSL X.509 Client certificates honored this "untrusted" field. If the NAB was flagged as "untrusted" that NAB would NOT be used for X.509 client authentication. Now with Domino 4.6.2, basic (name and password) authentication will also honor the "untrusted" field, and thus will not use any NABs marked as "untrusted" for authentication.

For more information regarding these important changes and three related NOTES.INI variables, it is highly recommended that administrators refer to the 4.6.2 Release Notes document "Important changes in Web Authentication", found in the **Security** section of the **Things you need to know** chapter of these release notes.

**Shared Mail administration tools**
There have been two improvements to the shared mail administration tools. They include the ability to see the total number and total size of messages shared in the shared mail file for each user and the ability to run the Object Collect task without actually deleting documents from the shared mail file. See the **What's New** section of these release notes for more information.

**Domino CAL (Client Access License) accounting tool**
Effective July 1, 1998, Lotus implemented the Domino Client Access Licensing (CAL) model that will make it easier for you to acquire and use our products in a more open environment. As part of this new model, Lotus charges fees based on the number and type of clients that access Domino servers. To assist you in tracking your Domino usage, the Server\Licenses view in the Public Address Book has been modified in Release 4.6.2 to report the number and type of clients that access all servers within a single domain. See the **What's New** section of these release notes for more information.

For additional information about the new licensing programs, please refer to the Lotus Web site at http://www.lotus.com/. In the left pane of the web page, click **Products**, then **Domino CAL**.

**Enhancements to Web Mail templates**
The Web Mail templates, MAILW46.NTF and MAILC46.NTF, have been enhanced to provide richer graphics and a more web-like visual experience. In addition, users accessing their mail file via a browser now have the ability to Reply with History or Forward a message they are viewing. Many user interface enhancements have been made to make navigation and usage simpler. New graphic buttons have been added, incorporating a standard "look and feel". All Views have been redesigned with fonts and colors to make better use of screen real estate. The Address Finder screen has also been modified to make recipient name selection easier and more intuitive. Domino Name and Address Book searching has also been made easier to use.

**Web Navigator and template enhancement**
The Web Navigator and Web Navigator Template now support the use of Microsoft Internet Explorer 4.0.

**New Import Filters**
Import filters have been added to allow the import of additional WordPerfect files and Lotus Word Pro 96 and 97 files. See the **Things You Need to Know** section of these release notes for details.

**New Viewer for Lotus Word Pro 97**
New in Release 4.6.2 is the ability to view Lotus Word Pro 97 documents. See the **Things You Need to Know** section of these release notes for more details about supported viewers.
Updated INSO viewers for IBM AIX and Sun Solaris Sparc
Release 4.6.2 uses the latest viewer technology (version 5.1.1 MR2) from INSO Corporation for IBM AIX and Sun Solaris (Sparc). The new version of the viewers contains many improvements, provides some critical bug fixes, and adds support for HTML, Office 97, Lotus SmartSuite 97, PCX, and CCITT Group 3 Fax. The implementation of the version 5.1.1 MR2 viewers introduced some new issues that might not have been present in earlier versions of the viewers. Lotus is currently working with INSO on solving these issues. See the Things You Need to Know section of these release notes for details.

Domino partition as NT Service
Release 4.6.2 adds support for running a Domino partitioned server as a Microsoft Windows NT service. See the Things You Need to Know section of these release notes for details.

SMTP/MTA
New features include spam prevention, VRFY/EXPN SMTP command support, and extended international character set support. New certified NOTES.INI parameters are also provided. See the What's New section of these release notes for details.

Java support

<table>
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<tr>
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<th>Solaris (Sparc and Intel)</th>
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<th>HP-UX</th>
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<td>JRE 1.1.5</td>
<td>JRE 1.1.4</td>
<td>JDK 1.1.4 (as part of OS)</td>
<td>JDK 1.1.4</td>
</tr>
</tbody>
</table>

Server
4.6.2: New capabilities of Shared Mail administration
There have been two improvements to the shared mail administration tools:

- In each user's mail file, the ability to see the total number and size of messages shared in the shared mail file. This feature is an extension to the LOAD OBJECT INFO -FULL command. There is no change in the syntax of the command. The command output now includes the size and number information.

- The ability to run the COLLECT task without actually deleting documents from the shared mail file. This feature is an option of the OBJECT COLLECT command. The syntax is: LOAD OBJECT COLLECT -NODELETE mailobj.nsf.

Client, Designer, Server
4.6.2: Newly certified SMTP MTA notes.ini variables
Support for several new SMTP MTA notes.ini variables has been added as of Release 4.6.2.

Starting with Release 4.6.3, for details about these variables, see the Release Notes document titled "New SMTP MTA notes.ini variables beginning in Release 4.6.2" in the Things you need to know chapter.
4.6.2: New Domino CAL (Client Access License) views

Effective July 1, 1998, Lotus implemented the Domino Client Access Licensing (CAL) model that will make it easier for you to acquire and use Lotus products in a more open environment. As part of this new model, Lotus charges fees based on the number and type of clients that access Domino servers. To assist you in tracking your Domino usage, the Server\Licenses view in the Public Address Book has been modified in Release 4.6.2 to report the number and type of clients that access all servers within a single domain. Two columns have been added to this view:

- "Groupware CAL Users," which is a count of all registered users in the domain who have access to Domino applications.
- "Mail CAL Users," which is a count of all registered users in the domain who have a mailbox for sending and receiving mail.

Note: These access licenses are only intended to be levied on employees, customers and partners of the hosting enterprise and are specifically not intended to be levied on unsolicited Internet users. Please refer to the server license agreement for more details.

For additional information about the new licensing programs, please refer to our Website at http://www.lotus.com/. In the left pane of the home page, click Products, then choose Domino CAL.

Notes and Domino Release 4.6.2

Fix List (as of 9/09/98)

Below is the second and final update of the fix list for Notes/Domino Release 4.6.2. It is based upon the original fix list posted on 7/29/98 with more enhancements added. New additions to the list on 9/09/98 are denoted by an asterisk (*) before the SPR number. For example, *SPR# MPEY3TQUVZ was added to the list on 09/09/98. In addition to the fix list, the Release Notes for R4.6.2 have been updated and can be obtained from the following web page: http://notes.net/downqmr.nsf/462gr. Please note that this list and the Release Notes found on the web are more current than the printed release notes and the on-line release notes found on the 4.6.2 CD.

It should be noted that all the fixes listed, including the new additions to this list, are already in the R4.6.2 code. (R4.6.2a fixes are not listed here. They can be found in the Download area for the R4.6.2a Incremental Installers.) However, due to the large number of fixes to the R4.6.2 product, it has taken some time to compile the list. We appreciate your patience.

You will find in the list below, new information is now being included along with each SPR number and fix description. This new bracketed information indicates in which version the enhancement was first introduced. If the enhancement was first addressed in a Quarterly Maintenance Update (QMU), that will be specified, as well as the first scheduled Quarterly Maintenance Release (QMR) in which the enhancement was included. For example, a description specifying [4.6.2, 4.6.1a, 4.5.5] indicates the same issue affected both the 4.6x and 4.5x code streams and was subsequently corrected in both. Specifically in this example, the issue was first addressed in the 4.6.1a QMU of the 4.6x line and QMR 4.5.5 of the 4.5x line. It was also then corrected in the 4.6.2 QMR. Of course, once included, the enhancements carry forward into the subsequent maintenance releases of the same code stream and to new feature releases.
Administration Client

- SPR# DMKA3R8T9T - Fix a problem with the "Web Access: Require SSL Connection" checkbox in the Properties infobox for the Certificate Authority database being unavailable for Administration clients. [4.6.2]
- SPR# SYPK3PCH2 - Allow the Live console feature of the Web Administration client to accept multi-byte characters correctly. [4.6.2]
- *SPR# MPEY3TQUVZ - Correctly maintain the Command History on OS/2 Administration Clients when using File->Tools->Server Administration->Remote Console. [4.6.2]
- *SPR# MPEY3TRPPT - Correctly maintain the focus in the editable command window on the OS/2 Administration Client when using File->Tools->Server Administration->Console. [4.6.2]

API - MAPI

- SPR# DANO3J7TDJ - Fix a problem with the text of draft messages being lost when created from a MAPI client using the WordMail editor. [4.6.2]
- SPR# DANO3MQNTS - Make Notes the default message store when MAPI profiles are created (instead of Personal Folders). [4.6.2]

API

- SPR# RSLF3LDMJK - Fix Item creation in NSFNoteComputeWithForm to correctly update the reader and author field flags. [4.6.2]
- SPR# JCAR3FPSXY - Increase the length of the Operating System Path to be searched for the NOTES.INI file from 512 characters to 768 characters. [4.6.2]
- SPR# CBMO3TRKAX - Fix a significant memory leak on Windows NT and Windows 95 systems; this leak occurred when running an API program which called NotesInit or NotesInitExtended and NotesTerm while another Notes process was running. [4.6.2]
- SPR# AWHR3RNT7Q - Prevent an application from hanging when calling VIMEnumerateMessages if a damaged document or a document to which the user doesn't have access is encountered. [4.6.2]
- SPR# BSTL3RZMEN - Prevent a leak of one file handle per call on Windows NT in the memory initialization package which, when called recursively, eventually leads to a shortage of file handles and causes the process to crash. [4.6.2]
- SPR# ACOE3RCRUU, DGUY3Q3HNH - Allow Notes API programs (such as the EasyClip feature of Lotus Organizer 4.1) to be shut down and then relaunched successfully repeatedly while Notes is running. [4.6.2]
- SPR# PDOE3RMRUE - Fix a problem where the workstation crashed while clicking the Save and File button in the user's mailfile after editing a received message. [4.6.2, 4.5.5]
- SPR# DANO3N2SDQ - Prevent the error, "Document has been modified or corrupted since signed! (data)," when documents in a mailfile are modified by a MAPI client. [4.6.2, 4.5.5]
- SPR# ROZ3HZKLP - Provide support for the Options parameter in the API function, FTIndex. Previously this parameter was ignored. [4.6.2, 4.5.5]
- SPR# DANO3PZM84 - Add API functions to support the Administration Process features: ADMINReqDeleteInNAB, ADMINReqDeleteInACL, ADMINReqChkAccessNewReplica, ADMINReqChkAccessMoveReplica, ADMINReqRename, ADMINReqRecertify, ADMINReqMoveUserInHier, and ADMINReqMoveComplete. [4.6.2, 4.5.5]
- **SPR# BAS3KPKB2, DSCZ3U9P7B, PLAE3TYTEM** - Provide support for the new Euro Currency symbol on all platforms except the Macintosh (where it is not yet supported by Apple). [4.6.2]

- **SPR# SPRR3TZKNM** - Fix problems with the following Extension Manager hooks:
  
  EM_NIFOPENCOLLECTION  
  EM_NIFCLOSECOLLECTION  
  EM_NSFDDBFREEOBJECT  
  EM_NSFDDBOPEN  

  Add these new Extension Manager hooks (which have corresponding calls in the API):
  
  EM_NSFDDBCOPYNOTE  
  EM_NSFNOTECOPY  
  EM_NIFGETCOLLECTIONDATA  
  EM_NSFNOTEATTACHFILE  
  EM_NSFNOTETEDETACHFILE  
  EM_NSNOTEEXTRACTFILE  
  EM_NSNOTEATTACHOLE2OBJECT  
  EM_NSNOTEDELETEOLE2OBJECT  
  EM_NSNOTEEXTRACTOLE2OBJECT  
  EM_NSFDBCOPY  
  EM_NSFDBCREATEANDCOPY  
  EM_NSFDBCOPYACL  
  EM_NSFDBCOPYTEMPLATEACL  
  EM_NSFDBCREATEACLFROMTEMPLATE  
  EM_NSFDREADACL  
  EM_NSFDSTOREACL  
  EM_NSFDFILTER  
  EM_FTDELETEINDEX  
  EM_NSFNOTECOMPUTEWITHFORM  
  EM_NIFFINDDESIGNNOTE  
  EM_NIFFINDPRIVATEDESIGNNOTE  
  EM_NIFGETLASTMODIFIEDTIME  
  EM_NSGETSERVERLIST  
  EM_NSNOTESETINFO  
  EM_NSNOTEGETINFO  

  Remove these Extension Manager hooks (which do not have corresponding calls in the API):
  
  EM_NSFNOSTAMP  
  EM_NSNOTEOPENBYURLQUEUED [4.6.2]

- **"SPR# GÖR3PKD5M"** - Fix the Extension Manager callout, EM_GETPASSWORD, to work properly with multi-password ID files. [4.6.2,4.5.6]

- **"SPR # RBOO3UELFT"** - Fix the error message, "Field is too large (32k) or View's column & selection formulas are too large," to report the correct maximum of 32K. [4.6.2]

- **"SPR# AWAG3PZMR2"** - Fix a comment in NSFDATA.H. [4.6.2]

- **"SPR# DSCR3U6TYJ"** - Expose the ODS typecode, _VIEW_CALENDAR_FORMAT, since the type, VIEW_CALENDAR_FORMAT was exposed in the API. [4.6.2]

- **"SPR # MYKG3VK97A"** - Fix a problem in IntlTextCompare which failed to match ASCII character strings in a multi-bytes character environment. [4.6.2,4.5.6]

- **"SPR # MSAN3V3PQW"** - Fix a problem in NSFNoteUpdate( ) which was not accessing the $BusyName item correctly on the Unix platform. [4.6.2]

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*SPR# AMYS3TRTPQ - Fix a problem with NSFDbOpenExtended() called with the DBOPEN_CLUSTER_FAILOVER option set returning NOERROR and a DBHANDLE which referenced the local data directory when the database had no replicas on any other cluster server and the server was down. [4.6.2]

**Calendaring and Scheduling**

- SPR # YXUU3RZCM5 - Fix a problem which causes Notes to crash when changing repeating meetings multiple times. [4.6.2,4.5.5]
- SPR# PMNY3RKNDNR - Fix a problem which prevents users with accented characters in their names from being displayed properly in the Free Time database. [4.6.2,4.5.5]
- SPR# MLOT3MNK3C - Prevent the display of debug statements on UNIX systems when using the Find Free Time feature. [4.6.2,4.6.1a,4.5.5]
- SPR# JBII3REMKA - Allow for the correct handling of Free Time lookup when a user's calendar is in a separate or foreign domain as specified in the Calendar Domain field in the Person record of the Address Book. [4.5.5,4.6.2]

**Client - UNIX only**

- SPR# CSAO3QN4V4 - Correctly wordwrap strings of characters containing no spaces in messageboxes on UNIX clients. [4.6.2]
- SPR# MGRT3RANPG - Prevent a hang when registering new users on UNIX servers at the point that the dialog asking you if you would like to register more users should be displayed. [4.6.2]
- SPR# RBUI3827CX - Disable the Properties and Fields dialog entries when using the NoteID Database Tool in File->Tools->Server Administration until a valid note is displayed to prevent a hang in UNIX. [4.6.2]
- *SPR# TRSR3TKE7D - Fix a problem with custom smarticons not being available in default set. This problem was introduced in R4.6.1. [4.6.2]
- *SPR# DCLK3QMUEA - Enable the Send button on the Remote Server Console when using File->Tools->Server Administration->Console on a Unix machine. [4.6.2]
- *SPR# SCTN3RM2VP - Provide the same Collation/Casing options for International English kits on Unix as on the PC platforms. [4.6.2,4.5.6]
- *SPR# JCOS3RKL7Y - Allow the use of the Favorites database on the AIX client. [4.6.2]

**Client**

- SPR# CRAO3KUGVD - Fix a crash when pressing an action button which uses @Commands to toggle the appearance of the preview pane before and after ViewRefreshFields. [4.6.2]
- SPR# MPEY3LRUM5 - Fix a problem that causes a failure when selecting only the first database listed in the Source Database list in File->Tools->Server Administration->Database Tools->Create a Replica. [4.6.2]
- SPR# EGAN38JJSQ - Repaint documents correctly after an @function message box is displayed while the document is being loaded. [4.6.2,4.5.5]
- SPR# JHOD3TKPW2 - Allow certain documents containing sections that were created with early R4.x versions to open instead of displaying the error, #0C:09. [4.6.2]
- SPR# CHRI3TBGJ - Fix a crash when attempting to open a document link in the on-line Help database using the menu selection Link->Open Link. [4.6.2]
- SPR# ROZ3JRSAB - Fix a problem which prevents database design replace and refresh from recognizing that an agent had been updated when it was signed. [4.6.2,4.5.5]
- SPR# JTHN3TJLEX - Fix a crash when attempting to print a document which has an unregistered OLE/OCX object embedded. [4.6.2]
- SPR# GSPT3C4JN9 - Correctly repaint the modem icon in the status bar when the Notes window is resized. [4.6.2]
- SPR# DOE3JKLSJ - Fix a problem which causes a Windows 95 client to crash when the Mail Tools submenu is selected and a new mail notification is received. [4.6.2,4.5.5]
- SPR# MGRT3LZQS2 - Fix a problem in which a new Notes user would have the default Location document specifying Internet instead of Office. [4.6.2]
- SPR# KHE3SBCUQ - Prevent the random display of garbage characters in static text fields contained in layout regions. [4.6.2]
- SPR# YKUO3SBCT9 - Fix a workstation crash which occurs when accessing a very large keyword field list (greater than one thousand items) in a layout region. [4.6.2]
- SPR# GSAN3SBRQ4 - Fix the highlighting of objects in Navigators when polygons and polylines are positioned over them. This problem was introduced in R4.6.1. [4.6.2]
- SPR# VMAA3QQKVX - Present the correct error message to a user in Form Design who tries to Preview in Web Browser if the Default or Anonymous access to the database isn't at least Author access with Create document capability. The requirement for Create document access was introduced in R4.6.1 and caused Preview in Web Browser to fail with no appropriate error. [4.6.2]
- SPR# DSCZ3SQRST - Correctly store a view alias when using a Simple Action in a Navigator to get to the view. [4.6.2]
- SPR# BBRZ3S3LJJ, JTHN3SETXE - Fix a problem with FX being disabled for new installations (not upgrades) of Lotus 1-2-3 Release 9 when the user attempts to modify a document with a Lotus 1-2-3 97 object in it. [4.6.2]
- SPR# WEBB3M6PNZ - Prevent a workstation crash by opening the mail database to the last accessed view or folder (even if there is a graphical navigator specified as the Launch option) when using the "Scan for unread" user preference. [4.6.2]
- SPR# PSEO3PVVBC - Fix a crash when skipping databases while using the Scan for Unread feature in User Preferences. [4.6.2]
- SPR# MLAT3PVRVC - Prevent the display of the user's password in the Japanese IME window. [4.6.2]
- SPR# TBOT3SRPSZ - Fix a crash when a document is created, saved, and then forwarded from a database with the "Display images after loading" option set to another database which does not have the option selected. [4.6.2]
- SPR# DCOY3SJ5YN - Fix a problem with Local free time information not being updated when the user is working remotely unless the Local free time information database was first on the Replicator page. This problem was introduced in R4.6. [4.6.2]
- SPR# SYPK3Q336B - Prevent the truncation of long multi-byte character text strings when pasted from the clipboard into hotspots. This problem was introduced in R4.5.4 and R4.6.1. [4.6.2]
- SPR# GSAN3SBRQ4 - Fix the highlighting of objects in Navigators when polygons and polylines are positioned over them. This problem was introduced in R4.6.1. [4.6.2]
• SPR# KROS3RKQVC - Fix various problems, including both crashes and hangs, when using WordPro as the Document Memo editor in Notes. [4.6.2]
• SPR# SYPK3FXDJT - Correct the behavior of the Shift+Home and Shift+End keystrokes in a Names field in a layout region on a form. [4.6.2]
• SPR# DMAS3RLR29 - Fix a problem in which databases on the desktop are added to the Portfolio database even if the user canceled a drag operation. [4.6.2]
• SPR# ATHS39ZTTY - Correctly change when the alarm goes off (from Before or After to On time or from On time to Before or After) for all instances of a repeating Calendar entry. [4.6.2]
• SPR# WEBB3MUKFF - Prevent a crash which occurs when saving a document created in R4.5x with an empty $Background field. [4.6.2]
• SPR# SYPK3QP9Y9 - Correctly display the current font in the Status bar and in the Infobox on all Asian versions of Notes. [4.6.2]
• SPR# JHOD3PGP28 - Prevent a hang when exiting Microsoft Word after doing a Send To Mail Recipient when using Notes as your mail system. [4.6.2]
• SPR# SWT3K4FWG - Allow the Notes client to shut down successfully even if we are unable to write to the DESKTOP.DSK (because it is on a filesserver which becomes unavailable). [4.6.2,4.5.5]
• SPR# OUN3P2P6V - When purging the CACHE.DSK file to conform to its diskspase quota, consider all design elements including LotusScript libraries and navigators for remote databases. [4.6.2,4.5.5]
• SPR# HHII3RM33W - Allow the Database Signing utility to be used on agents which are stored in R3.x format without subsequently producing the error, "Document has been modified or corrupted since signed! (data)," when being run. [4.6.2,4.5.5]
• SPR# BSN3S7KAN - Support the NOTES.INI variable, InitialCacheQuota, which specifies the size of CACHE.DSK in kilobytes, e.g., InitialCacheQuota=1024 specifies a 1 megabyte file, instead of the default size of 5 megabytes. [4.6.2,4.5.5]
• SPR# SMDN3S4TAB - Search all Address Books when a recipient name in a mail memo is misspelled, so that a complete list of approximate matches is presented even if "Stop after first match" is set in the user's Location record. [4.6.2,4.5.5]
• SPR# BMUY3J4QWL - Provide a new NOTES.INI variable, DontPrintFTHighlights=1, to prevent the printing of the outline around words found during full-text search. [4.6.2,4.5.5]
• SPR# MZET3RYSEF - Prevent the error, "Object size cannot be zero," from occurring when forwarding a document with attachments when the attachments are of a particular size. [4.6.2,4.5.5]
• SPR# MDLS3S2Q9D - Fix a crash after reporting, "Paragraph or Field cannot be larger than 64K bytes," when selecting from certain large keyword fields. [4.6.2,4.5.5]
• SPR# KISA3N6692 - Allow the user to always exchange unread marks during workstation replication by setting the NOTES.INI variable, REPLICATOR_SYNC_UNREAD, to -1. Please note that using this feature will result in severe performance degradation when replicating and that support for this NOTES.INI variable may be removed in future feature releases if this feature is enabled differently. [4.6.2,4.5.5]
• SPR# MDLS3N4P5J - Fix the formulas, @Month, @Day, @Hour, @Minute and @Weekday, to perform the evaluation with respect to the current timezone. [4.6.2,4.5.5]
- SPR# KMAA3NC369 - Prevent the incorrect display of a view in the case where a user chooses to delete more than one document but does not have the access to delete all of them. The view has to be rebuilt to show that the documents are not really deleted. [4.6.2,4.5.5]
- SPR# STN2ZJ5L, FPAI3RCQJV - Allow the setting, "Show Context Icons," in File->Tools->Smarticons to be persistent across Notes sessions. [4.6.2,4.5.5]
- SPR# RGET3NYMLE - Prevent users who do not have access to a database locally from being able to delete it if the "Enforce a consistent ACL" option is selected. [4.6.2,4.5.5]
- SPR# SMUN322PSN - On Windows 95 and Windows NT, adjust the operating system timezone as well as the operating system clock when a user selects a new timezone in the active Location document. [4.6.2,4.5.5]
- SPR# TBOT3SUUBZ - Prevent the Notes client from hanging when attempting to display bubble help for smarticons when using an application with child windows. [4.6.2,4.5.5]
- SPR# JKEY3J8QHQ - Correctly allow documents with a .WPD extension (as well as those with the .DOC extension) to be recognized by the WordPerfect 5.x importer. [4.6.2,4.5.5]
- SPR# JJOE36DPFX - Fix Navigators not to display scroll bars when the "Auto adjust at runtime" option is selected. [4.6.2,4.5.5]
- SPR# VPAA3F9NUL - Fix a problem that causes the NoteID tool to crash when examining deleted notes. [4.6.2,4.5.5]
- SPR# SCON3GZSUQ - Allow the newmail notification and type-ahead features to work on a clustered server during failover. [4.6.2,4.5.5]
- SPR# MOBN3SPVM3 - Prevent the incorrect display of the April calendar (date was off by one day) in all calendar controls in the International version. This problem was introduced in R4.5.4 and R4.6.1. [4.6.2,4.6.1a,4.5.5]
- SPR# MSWN3RKHSD - Fix a problem which prevents administrators from creating replica copies of databases using the Database Tools feature of the Administration Panel. This problem was introduced in R4.5.4 and R4.6.1. [4.6.2,4.6.1b,4.5.5]
- SPR# ABAN35FPXT - Correctly display a bidirectional arrow icon on the Replicator page for a database created using the CreateReplica method on a NotesDatabase in LotusScript. [4.6.2]
- SPR# DAJR3U8KSU - Prevent a crash when opening certain documents which are based on forms with layout regions. [4.6.2]
- SPR# DHOE3PVK8B - Fix a crash which occurs when selecting the "Show only cluster members" checkbox after receiving an error message attempting to 'Create a Replica' from a non-hierarchical server in File->Tools->Server Administration->Database Tools. [4.6.2]
- SPR# ATA13ENBUT, VPAA3BFQAN - Fix a crash which occurs when the user deletes documents from a database while using the Scan Unread or Scan Preferred dialog box. [4.6.2]
- SPR# BJON3TSKPD - Prevent a repaint and potential hang problem when using another application's Help during the display of an object of that type in Notes. [4.6.2]
- SPR# MLUZ3TZKLE - Correctly remove the completed name inserted by typeahead mail addressing when new characters are typed which don't match the selected text. [4.6.2]
- SPR# MALZ3L4U2T - Introduce a new NOTES.INI variable (NSF_UNREAD_METHOD=1) which changes the behavior of unread marks in a database which is accessed by more than one application using the notes API (including Notes itself, and Organizer 97 GS). This change will cause the unread status of a document to be affected only by the application directly touching the document. [4.5.5,4.6.2]
- SPR# JHOD3SWQXP - Allow type-ahead addressing and name lookup to find names in the short name field of the Address Book which don't match the name in the last or first name fields. [4.6.2]
- SPR# DJOS3RKMQ3Q - Fix problems with the processing of some URL's included on the command line when launching Notes, for instance, when launching from Netscape Communicator in order to compose a mail message. [4.6.2]
- SPR# CGOZ3QZNR9 - Allow the use of @MailSend in private database views. Although this fix was listed in the R4.5.5 Fixlist, it was not completely fixed. [4.6.2]
- SPR# DSCZ3PS5MM - Remove the text, April-October, in the Time Zone Setup dialog checkbox, "Observer Daylight Savings Time." [4.6.2]
- SPR# MPEY3UPT5H - In File->Tools->Server Administration->Database Tools, both Full Text create/update requests to the Update task and Compact requests will be queued up to be carried out by the server sequentially if multiple databases are selected. Previously, a new process was launched for each request, potentially causing performance problems on the server. A message will be displayed ("Your request to index this database has been queued on the server. You may search the database as soon as indexing is completed.") and result in an error count in the Results dialog. [4.6.2]
- SPR# MSCE3B8RE3 - Fix a resource leak which, when editing a form containing a time control field in a layout region, eventually results in the error message, "Unable to create action bar." [4.6.2]
- *SPR# ESKM3TTFEW - Fix a problem with Notes crashing or hanging if both single-byte and double-byte characters were entered in a keyword field. [4.6.2]
- *SPR# CRAO3KUGVD - Fix a crash when pressing an action button which used @Commands to toggle the appearance of the preview pane before and after ViewRefreshFields. [4.6.2,4.5.6]
- *SPR# DJMC3VBNDN - Handle letter families correctly when sorting views in Hungary and other countries. [4.6.2]
- *SPR# JKAH3WFUJ3 - Change the parsing of the database name in various LotusScript and Java methods. [4.6.2,4.5.6]
- *SPR# MPEY3TUURC - Include all of the servers associated with the database icons on the workspace as well as those listed in the Address Book in the "Choose a server to administer" list in File->Tools->Server Administration. [4.6.2]
- *SPR# MPEY3TUNKP - Correct a typographical error in the help description for the Route command in File->Tools->Server Administration->Console->Commands. [4.6.2]
- *SPR# PMOL3RETA9 - Fix a crash which occurred when pressing an Action button that runs an Agent without closing and re-opening the view first when designing the view through the Actions->View Options->Design interface. [4.6.2]
- *SPR# KGEE3QNM6K - Fix a crash which occurred when using the Bold, Italic, or Underline smarticons (or the CTRL key equivalents) during view design. [4.6.2]

**IMAP Mail Server**
- SPR# RSNR3UFL3E - Fix the IMAP server to send the correct error back to a client for body.peek and bodystructure. Previously the incorrect response could hang the client. [4.6.2]
- SPR# MSAN3SAWV - Prevent BAD FETCH errors from being returned intermittently by the IMAP Server when the Sender field is empty. [4.6.2]
- SPR# MSAN3SX3W - Fix a crash in the IMAP Server when a message contains too many entries in the To: field. [4.6.2,4.6.1b]
SPR# MSAN3TRU8L - Prevent an intermittent crash when multiple users are using IMAP search operations. [4.6.2]

*SPR# WLJG3V5GR8 - Improve the performance of the IMAP server during the processing of APPEND and COPY commands. [4.6.2]

Install

SPR# MKIR3V4RFX - Install NTSVINST.EXE during normal server install so that customers can choose to install Domino as a Windows NT Service after the install is complete, instead of having to run a full install again. [4.6.2]

SPR# KSOA3QRR5Y - Prevent the installation of server-only templates when installing a client from the Custom Installation dialog. [4.6.2]

SPR# MJAS3P2KA3 - Prevent the HTTPD.CNF file from being overwritten when installing a new release on OS/2. This problem was fixed in R4.6.1 for the other platforms. [4.6.2]

SPR# WEBB3M3J5V - Install a partitioned server correctly when the user doesn't take the default data directory name. [4.6.2]

SPR# MCLK3UVGY5 - Fix a problem with Node installs requiring that users have write access to the fileserver from which they were installing; now only read access is required. [4.6.2,4.6.1d]

SPR# MHER3LZRLA - Set up a temporary directory in the NOTES.INI to be used in the "MTA work path" field of the SMTP section of the Public Address Book. [4.6.2]

SPR# KSTG3PEK4B - Correctly install SRVINST.NSF, HELPADMIN.NSF, and JAVAPG.NSF on the NetWare server. [4.6.2]

*SPR# KGAR3TXHUU - Allow install to work properly on AIX machines on which the locale settings are changed. [4.6.2,4.5.6]

*SPR# PSEO3VMSVX - Fix a problem with various HTTP server files for the Windows platform being installed for the NetWare server. [4.6.2]

*SPR# RKAY3V9TCC - Include the Domino Server.Planner templates correctly in the OS/2 installation kits. [4.6.2]

Java

SPR# LSWN3SEV7K - Fix focus problems when clicking on Java applets. [4.6.2]

SPR# JTHN3TCJQ5 - Prevent a hang when multiple threads of a Java applet are writing to the screen. [4.6.2]

SPR# DHEK3RRTQ4 - Fix a memory leak when running any Java agent or application that opens more than one database. The memory leak was caused by the failure of Session.finalize to destroy each object it owns. [4.6.2]

SPR# RSHI3QSG5Q - Provide multi-byte character set support in Java. [4.6.2]

SPR# JCAN3TSD5A - Allow Turkish users to run Java applets and foreground Java agents. [4.6.2]

SPR# DBRN3SJRKZ - UNIX Only: Correctly export the new recycle( ) method added to the Notes Java classes on Solaris. [4.6.2,4.6.1b]

SPR# LSWN3U2LGA - Prevent a potential hang when using a Java applet in Notes. [4.6.2]

SPR# JKEY3QW2ND - Issue the proper error message when maximum Java vector size is exceeded. [4.6.2]
- SPR# JCHN3T7JVH - Make Java servlets compliant with the HTTP HEAD request. [4.6.2]
- SPR# JCHN3T7S4R - Provide the proper support for the getLastModified Java method on an HttpServlet. [4.6.2]

LAN/WAN
- SPR# GSPT3T4LQN - Prevent excessive recursion in computing a path to a server if a Passthru Server Connection record uses an asterisk for the destination server. [4.6.2]
- SPR# GSPT3J6LYQ - Fix a problem with RAS connections not being hung up consistently after workstation replication. [4.6.2]
- SPR# MGRS3QPEW6 - Allow Windows 3.1 clients to use Calendaring and Scheduling alarms over TCP/IP by changing the default timeout value from 20 to 30 seconds, and by adding a NOTES.INI setting (WKSDMN_WAIT_FOR_STARTUP_SEC) to control the timeout value for node installs. Previously the error, "The Notes Winsock Daemon _WSKDMN.EXE could not be loaded," appeared on slow connections. [4.6.2,4.5.5]
- SPR# GSPT3SESYF - Assign multiple COM ports to multi-threaded server processes instead of assigning the same one to all, causing all but one process to fail initially. [4.6.2,4.5.5]
- SPR# HWAI3NH72P - When connecting remotely, use the user's ID file to report the correct user name in the Phone Calls by User view of the Server Log, even if the ID file has been switched during the Notes session. [4.6.2,4.5.5]
- SPR# PHAN3S8V7Z - Fix a problem in the X.PC driver with the following error being reported in the Notes Log, "Bug in Pkt_st: State = 0, Event = 4." This fix is needed by both the client and the server software. [4.6.2,4.6.1b,4.5.5]

LDAP Server
- SPR# CROU3SAU5P - Prevent a memory leak for each login to the LDAP server when client certificates and the SSL port are enabled. The server will eventually Panic in ExtendHandleTable. [4.6.2]
- SPR# BAKH3UPGNU - Fix a problem that prevents LDAP entries in the Master Address Book from being found for Notes or for Web clients. This problem was introduced in QMU 4.6.1a. [4.6.2,4.6.1d]
- SPR# MOBN3ULTFS - Fix a problem with the LDAP server returning bad addresses when there are cascaded Address Books and no Global Domain Record. [4.6.2]
- SPR# VDSE3RVJLV - Fix a problem which causes the LDAP server to crash when processing a search request with the filter set to (|(cn=username)(objectclass=*)). Now the filter is properly evaluated and the correct search results are returned. [4.6.2]
- SPR# MOBN3UVRT3 - Return complete addresses for users (including the domain) in cascaded Address Books included in the Master Address Book even when there is no Global Domain record with the "Use as default Global Domain" checkbox checked. [4.6.2]
LotusScript

- SPR# KBET3JJZJVM - Fix a problem with LotusScript agents that reference an LSX reporting "Error loading DLL" if the path of the LSX changed after the agent was compiled. The path of the LSX is now correctly obtained from the Registry. [4.6.2]
- SPR# JCOR3TAUWA - Prevent crashes caused by using the RemoveItem method on a NotesDocument on a duplicate item, which can only be created using LotusScript. [4.6.2]
- SPR# MGAN3RKLTZ - Add new properties to the LotusScript class, NotesEmbeddedObject, to work around incompatibilities with applications developed in R4.5x. See the description in the New Features section of the Release Notes. [4.6.2]
- SPR# CRAO3T4HLA, BBRZ3T7S6L - Fix a problem with the inability to open documents containing an embedded object created through LotusScript. This problem was introduced in R4.6.1. [4.6.2,4.6.1c]
- SPR# CRAO3TAPXX - Fix a crash when using the AppendDocLink method on a NotesRichTextItem when the comment field is long. [4.6.2]
- SPR# KHKP3TTHVA - Fix a problem with not being granted appropriate access to a local replica of a server-based database on which "Enforce consistent Access Control List..." is selected when access is obtained via membership in a group in the Public Address Book. This feature was temporarily disabled when the database was created using the LotusScript method, CreateReplica, on a NotesDatabase in R4.6.1 and R4.5.5. [4.6.2]
- SPR# JCHN3TRLVB - Fix a memory initialization problem which causes the HTTP server (and other Notes API programs) to crash when running multi-threaded LotusScript agents. [4.6.2]
- SPR# PJAN3QH2FL - Fix a problem which results in an #0C:E5 error when using the FieldGetText method on a NotesUIDocument object if the field was greater than 64k; the correct error message, "Paragraph or field cannot be larger than 64k bytes," is now returned. [4.5.5,4.6.2]
- *SPR# MBEN3UQHWS - Since the GetNextItem (Hidden) method on the NotesItem class is now obsolete, item.PartialText( ) now returns a string array of constituent strings that may total more than 64K. [4.6.2]
- *SPR# KHUG3P7NEC - Fix access problem to "Private on first use views" which also caused a crash when the view was inspected using the LotusScript debugger. [4.6.2,4.5.6]

LS:DO

- SPR# SAUA3SBQUU - Fix a large performance degradation in table lookups in LS:DO that was introduced in R4.5.4 and R4.6.1. [4.6.2,4.6.1a,4.5.5]
- *SPR# DMAN3MDR - Modify time conversion routine to resolve reported problem. [4.6.2,4.5.6]
- *SPR# MPAA3NPUFU - Change in product build procedure caused internal LS:DO problem. This error has been resolved. [4.6.2, 4.5.6]
- *SPR# DMAN3NHNN2 - Make Single and Currency available as FieldExpectedDataType options. [4.6.2,4.5.6]
- *SPR# JIN3PZACT - Modify ExecProcedure method to allow more that 30 parameters. [4.6.2,4.5.6,4.5.5]
- *SPR# RSHI3NK96H - Enable LS:DO to update a row by rowid in databases that support rowid. [4.6.2,4.5.6]
- "SPR# BLUU3SYMDS - Fix workstation crash which produces the error "memory following pool block has been destroyed" resulting from LS:DO agent using UseRowID. [4.6.2,4.5.6]
- "SPR# WEL3M9H43, BLUU3S2KPT - Fix problems with LS:DO initialization routines which previously resulted in HTTP server hangs after repeated execution of an LS:DO server agent. [4.6.2,4.5.6]
- "SPR# BLUU3UBPT8 - Modify HasRowChanged method to return correct value. [4.6.2,4.5.6]
- "SPR# BLUU3UBLRG - Modify LS:DO so that SQL_REAL is registered as valid constant. [4.6.2,4.5.6]
- "SPR# BLUU3UET28 - Modify ODBCResultSet class to recognize previous errors. [4.6.2,4.5.6]
- "SPR# BLUU3TZKBJ - Modify GetRowStatus to return a correct value. [4.6.2,4.5.6]
- "SPR# BLUU3TUKEB - Fix a problem where table aliases are not recognized. [4.6.2,4.5.6]
- "SPR# BLUU3SYM2D - Fix a problem where UseRowID returns incorrect value for computed columns. [4.6.2,4.5.6]
- "SPR# RSHI3RHFQP - Fix a problem with ExecProcedure(procedure_name, DB_PARAM_ARRAY, LsArray) truncating data of type CHAR and VARCHAR when the Lotuscript datatype (LsArray) is variant. [4.5.5, 4.6.2]
- "SPR# JIN3Q3496 - Prevent the display of the erroneous error message, "Decimal or money exceeds maximum precision," when inserting decimal data into an Informix database using Intersolv's Informix 3.01 driver. [4.5.5, 4.6.2]

POP3 Mail Server
- SPR# BRIS3P2PAM - Decrease the per-thread memory usage of the POP3 Mail Server task. [4.6.2]
- SPR# WLJG3TAG68 - Obey global domain rules when generating an Internet address for IMAP and POP3 mail users. [4.6.2]

Server - NT Alpha only
- "SPR# GPFM3VCLL9 - Prevent excessive Alignment Fixups when building views, which would otherwise degrade performance. [4.6.2]

Server - OS/2 only
- SPR# BMKE3A8JQE - Fix a crash on OS/2 servers specifying "PANIC: Insufficient semaphores to handle number of concurrent owned critical reg." [4.6.2]
- SPR# GPFM3THM8P - Prevent a crash of the Agent Manager on an OS/2 server by reducing the size of the memory requested by the program in order to work around a problem in the operating system with addressing memory across a 64K boundary.

Server - UNIX only
- SPR# SGOE3V3SGQ - Fix a crash on AIX servers when trying to connect to another server using the TCP/IP stack. [4.6.2]
- SPR# PRIA3TSNLNL - Fix a problem with running out of file descriptors on UNIX servers resulting in either the server dropping active sessions or a deadlock which requires a server reboot. [4.6.2]
• SPR# JCHN3SYL5L - Allow multiple Java servlets to run on the AIX Server instead of receiving the error, "Request parsing failed fatally." [4.6.2]

• SPR# MPEY3TRKXL - Disable the feature in the Reporter, "Getting file usage statistics for analysis" for UNIX because the file system does not allow for opening the files in the manner needed. [4.6.2]

• SPR# JJAN3U9QAP, JJAN3UU6MFN - Prevent intermittent hangs in the HTTP server and Domino server on UNIX. [4.6.2]

• SPR# KBRN3UXHR3 - Allow JAVA stand-alone applications to run on Solaris. [4.6.2]

• SPR# SYAO3FHAL3 - Fix a problem on HP-UX which prevents the server from shutting down when the Event task is loaded. [4.6.2, 4.5.5]

• SPR# DOE3TLFPJ - Fix a file descriptor leak on AIX which occurs when opening read-only databases. [4.6.2]

• *SPR# BOD3SXRPX - Prevent incorrect entries from being added to the system path on Solaris servers when the HTTP server was loaded. [4.6.2]

• *SPR# EBEL3V9M4D - Fix a performance problem on the AIX server. [4.6.2]

Server

• SPR# JKAH3TCKTJ - Present a more informative error message in the server log when an agent does not run because of server name mismatch (for example, when the user’s mail server is not the current server). [4.6.2]

• SPR# DQUY3T82YC - Fix a problem with the encryption settings not being passed on and encryption not being carried out when database replicas were made of encrypted databases while "Do not send changes in local security property" was deselected in Advanced Settings. [4.6.2]

• SPR# DWIN3TBM65 - Prevent the Admin Process from updating remote Address Books by storing X.509 certificates in them. [4.6.2]

• SPR# AWHR3LTSCCL - Correctly use the ACL in the busytime.ntf when creating busytime.nsf. [4.6.2]

• SPR# CROU3PWSQ2 - Prevent the Administration Process from storing an X.509 certificate in the wrong Person document in the case of duplicate names in cascaded Address Books. An error is now reported. [4.6.2]

• SPR# JKIK3MFRUH - Prevent the error, "The ID file is locked by another process. Try again later," from occurring under certain circumstances on busy servers. This fix is an enhancement to the fix that was included in R4.5.4a. [4.6.2]

• SPR# MSAN3TDLRF - Prevent various server crashes caused by agents accessing profile documents. These crashes were more likely when DominoAsyncronizeAgents was enabled to allow multiple agents to run simultaneously. [4.6.2]

• SPR# SSHE3J8EY6 - Prevent template files from replicating when *.nsf is specified in the Files/Directories to Replicate section of the Server Connection document. [4.6.2]

• SPR# JYUN3TALJ7 - Fix a problem with the sequence number of Rich Text fields containing hotspots being incremented incorrectly and causing replication conflicts. [4.6.2]

• SPR# SSHE3T7J3V - Fix another instance causing view corruption, in particular of the $ServerAccess view of the Address Book. [4.6.2]
- SPR# JKEY3SANMD - Correct the error handling in the Agent Manager for when the server record fields, which specify who can access and not access the server, who can create new databases, and agent restrictions, exceed the maximum 256 character length. [4.6.2]
- SPR# SSHE3NYQZ2 - Fix a problem on AIX where the creation of SSL certificates crash the client if the HTTP server is running. [4.6.2]
- SPR# GCAR3RZS89 - Fix a problem with collecting numeric statistics from remote servers when running translated versions of Domino. [4.6.2]
- SPR# RHON3RENHP - Prevent a certain occurrence of the error message, "Insufficient Memory: Index Pool is Full," that occurs when many changes are made to groups in the Address Book. [4.6.2]
- SPR# LBRD38PQG2 - Allow replication to work properly with overlapping Connection records specific to different databases on the same pair of servers. Note that the server console command "show schedule" will not reflect the correct schedule, but the Server Log will confirm that the replication happened as requested. [4.6.2]
- SPR# KNL3NQKB3N - Fix a server crash that occurs when creating a full-text index using the Index Breaks option "Word, sentence, and paragraph." [4.6.2,4.5.5]
- SPR# KNL3QFHLW - Fix a memory leak resulting in the error, "Unable to replicate: Maximum number of memory segments that Notes can support has been exceeded," and eventually requiring a server restart. This error occurred during selective folder replication when deletions were replicated. [4.6.2,4.5.5]
- SPR# KNL3H9HS7 - Reduce the incidence of multiple updater processes, each logging Address Book view update events when only one update is actually taking place. [4.6.2,4.5.5]
- SPR# LMIR3QCT8C - Fix a problem with the full-text indexing of a non-Rich Text field. It appears immediately before consecutive Rich Text fields when the first Rich Text field is empty. [4.6.2,4.5.5]
- SPR# THOY3S93MW - Provide support for partitioned servers when running Domino as a Windows NT service. Please see the Troubleshooting section of the Release Notes for caveats. [4.6.2,4.5.5]
- SPR# MSAN3SJP7R - Fix a memory leak and a major performance problem encountered when opening a folder that has the "Show response documents in a hierarchy" property selected. [4.6.2,4.5.5]
- SPR# MCA3SGQHM - Fix a problem that allows certain improper updates by the Replicator. [4.6.2,4.5.5]
- SPR# CRAO3PLJVM - NSFPool.Used and NIFPool.Used stats are now correctly displayed at the server console. [4.6.2,4.5.5]
- SPR# SSHE3JBMNH - Fix a problem with newly-enabled agents not being loaded successfully and reporting "File object is truncated - file may have been damaged." [4.6.2,4.5.5]
- SPR# GFLY3PSP7N - Fix a problem that prevents fields located between the first and last instance of a Rich Text field from being full-text indexed and thus unavailable to searches. [4.6.2,4.5.5]
- SPR# DWIN3SD3XQ - Prevent the Administration Process from crashing when processing two Rename or Delete in Reader/Author fields requests on the same name simultaneously. [4.6.2,4.5.5]
- SPR# MFOT3MNVCF - Allow the Notes client to run to setup a Notes server on an OS/2 machine with 2 gigabytes of RAM. [4.6.2,4.5.5]
- SPR# RJAN3GDL3J - Prevent profile documents from being deleted during mail file replication, resulting in their being replaced by the default profile. This problem was fixed in R4.6.1. In R4.6.2 another problem was fixed that caused database replicas to have profile documents replaced by the default profile. [4.6.2,4.5.5]

- SPR# MPEN3SAQPY - Fix a small memory leak in the NIFPool that occurs under certain error conditions. [4.6.2,4.5.5]

- SPR# CODL3M8JCA - Fix a server crash caused by the attempt to access the Master Address Book on another server when it is locked by another program, such as a backup utility. [4.6.2,4.5.5]

- SPR# ADIE3S3KPG - Prevent a server crash caused by the full-text indexer when someone attempts to search for a reserved word. This problem only happened in localized versions of Notes because the string of reserved words, such as AND, NEAR, or NOT, was being translated when it should not have been. [4.6.2,4.5.5]

- SPR# MOBN3SPTDV - Fix a problem with replication stopping and reporting, "Document has been deleted." [4.6.2,4.5.5]

- SPR# MZET3SVT52 - Fix an intermittent problem with the Collect task deleting some attachments and documents in the single-copy object store. [4.6.2,4.5.5]

- SPR# ADIE3MDL2R - Change the default MAIL.BOX database size to 4 gigabytes when it is created by the Router. [4.6.2,4.5.5]

- SPR# AWHR3TBSTV, JNAN3T3MEP - Fix a crash using ACLEnumEntries in an API program when examining a database ACL created with R3.x (or earlier releases) of Notes. [4.6.2,4.5.5]

- SPR# CCWG3QGBXC - Fix a problem in the calculation of the time zone for customers in time zones where the offset is anything but a whole number (for example, -3.5 hours for The Netherlands). This problem caused the Agent Manager to calculate the next scheduled time for agents incorrectly so that agents would run every minute. [4.6.2,4.5.5]

- SPR# JHOD3KGRKB - Always put the forwarding address into the Sendto field in a mail memo so that it is the same as the Recipients field, so that the Reply To All feature works in all cases. [4.6.2,4.5.5]

- SPR# SSHE3NJVSA - Fix a problem that causes NIF storage corruption errors in the ($ServerAccess) view of the Address Book. [4.6.2,4.6.1d,4.5.5]

- SPR# MGAN3U8NSP - Allow the same server name as the server specified in the Agent Schedule dialog to be specified in the Copy to Database Simple Action, instead of requiring the use of "Local." [4.6.2,4.6.1d]

- SPR# DKEY3UPHEL - Fix a server crash with the error message "Invalid lookup handle" that occurs intermittently on servers configured with Directory Assistance. [4.6.2,4.6.1d]

- SPR# MBEN3UWKQB - Fix inconsistencies in the security model for background Java agents as compared to background LotusScript agents. [4.6.2,4.6.1d]

- SPR# SSHE3P5SXT - Provide the capability for system administrators with only Author access to the Address Book to modify certain fields that were previously restricted to Editors or above. This capability involves changing the design of the Address Book and is not recommended. [4.6.2,4.6.1c]

- SPR# JPII3HWKJE - Prevent error messages in logs of clustered servers reporting an inability to replicate XXX.TMP files. This problem was partially fixed in previous releases. [4.6.2]
- **SPR# SMUN3U7VF3** - Provide a new capability to restrict the times of day when the Admin Process runs. Two new NOTES.INI variables are introduced, ADMINP_restricttime_begin and ADMINP_restricttime_end, which are each set to a time using 24 hour notation (such as 22:30:00 to specify 10:30 PM). The begin time should be before the end time and the interval should not span midnight. [4.6.2]

- **SPR# JKAH3U3P33** - Improve the performance of the Agent Manager on multi-processor machines by improving the CPU load formula. [4.6.2]

- **SPR# MZET3RETR4** - Fix another cause of database view corruptions in R4.5.5a and R4.6.2. The following fix (listed and described under the same SPR number) was included in R4.5.4a and R4.6.1: Prevent certain instances of database view corruption when many document deletions have occurred resulting in the error in the server log, "NIF: DETECTED STORAGE CORRUPTION ERROR." [4.5.5a, 4.6.2]

- **SPR# DKEY3U8SBJ** - Prevent a potential view indexer hang when the Updall and Update tasks attempt to access the same database simultaneously. This problem would also cause the server to hang on shutdown. [4.6.2]

- **SPR# KWHR3JZTN4** - Correctly refresh the group cache on the server when the Members field of a Group document is changed so that additions and deletions to the Group are recognized as soon as the Address Book views are rebuilt. [4.6.2]

- **SPR# TEDS3UGP4R** - Fix a problem with the Compact process removing a delegate's access to the Calendar view of a mailfile. [4.6.2]

- **SPR# MZET3SUR2G** - Fix a crash with a RIP file specifying an access violation when updating the Freetime database. [4.6.2]

- **SPR# JPAI3UL6SJ** - Fix a problem in which invalid replication conflicts are being generated for documents which had never been edited. [4.6.2]

- **SPR# LVAO3UHHNA** - Fix a problem which causes floating point exceptions to happen when building certain views on an Alpha server. [4.6.2]

- **SPR# JPAI3UPK8M** - Provide enhancements to make installing Domino as an NT Service in Microsoft Clustering Service (Wolfpack) easier. [4.6.2]

- **SPR# MZET3UHQNY** - Improve the administration capabilities for the single-copy object store by:
  a. Displaying how many documents a user's mail file is sharing in the object store as well as the total size of the messages stored when using the LOAD OBJECT INFO -FULL command.
  b. Allowing the administrator to run the COLLECT task without actually deleting documents from the object store by using LOAD OBJECT COLLECT -NODELETE mailobj.nsf. [4.6.2]

- **SPR# WKES3HZPAV** - Fix replication logging to report the pathname field correctly in the Replication Events document even when the pathname field exceeds 15K. [4.6.2]

- **SPR# BDRR3S2STH** - The Admin process now updates the Busytime database and Appointment documents for which the person is the Chair correctly when a person's name changes. [4.6.2]

- **SPR# TDAS3M8Q6G** - Prevent one cause of the failure to fixup a database with a corrupt folder reporting NIF: DETECTED STORAGE CORRUPTION ERROR 'This database cannot be read due to an invalid on disk structure,' which prevented the database from being opened. [4.6.2]
• *SPR# JPAI3V53GZ - Fix a potential crash when multiple threads (from the same process) are doing network initialization simultaneously. This problem would probably occur more often on fast SMP systems. [4.6.2,4.5.6]

• *SPR# MKIR3MQT9F - Fix a small memory leak in the cluster code which only happened under certain error conditions. [4.6.2]

• *SPR# JPAI3VCRD5 - Fix a server crash (PANIC: LookupHandle: null handle) when updating full-text indexes due to incorrect memory re-initialization during a retry. [4.6.2]

• *SPR# SMUN3VCQHZ - Prevent a server hang after doing database fixup resulting from a deadlock on the "open database queue semaphore." [4.6.2,4.5.6]

• *SPR# SVRO3N2P7Q - Allow the user to open a mail database which is over its quota as a result of the Router continuing to deposit mail so that mail can be deleted. This fix is currently implemented on Windows NT servers only. [4.6.2,4.5.6]

• *SPR# LENL3UWJNR, MBOD3V4LK6 - Fix a problem with the Admin process so that when a user's name is changed, the Freetime database is updated correctly. [4.6.2,4.5.6]

SMTP MTA

• SPR# ALAE3V6RXX - Eliminate 2K byte memory leak in SMTP MTA when processing outbound mail with :bcc. [4.6.2]

• SPR# KGEW3SQKCD - Prevent SMTP MTA from removing "(a)" from recipient addresses when processing outbound mail. [4.6.2]

• SPR# MBED3PWQHJ - Prevent SMTP MTA from shutting down when processing outbound mail with 200 each To:, cc:, and bcc: recipients. [4.6.2]

• SPR# CWAH3SYEWN, CWAH3T4KPA, CWAH3T4HV9, BROE3RSQ69, BROE3RJKE9, BROE3RFDH7 - Prevent SMTP MTA from incorrectly encoding mail containing Eastern European, Baltic Rim and Turkish characters as ISO8859-1 instead of ISO 8859-2, ISO 8859-4, and ISO8859-9 respectively. [4.6.2]

• SPR# MMFD3SBT4Q - Fix problem with date displayed in prepended headers generated by SMTP MTA, if year 2000 or greater. [4.6.2]

• SPR# JPEY3HHMNV - Correct problem with SMTP MTA that prevents Content-type: MULTIPART/MIXED and Multiple Nested RFC822 Messages from being properly decoded when received. [4.6.2]

• SPR# CMOS3S4QUE - Prevent SMTP MTA error message "SMTP MTA: MIME parse error:too many tokens", when receiving malformed MIME message with bad MIME version in header.[4.6.2]

• SPR# BRAR3TBTAE - Number of domain suffixes supported by SMTP MTA and configured in Global Domain document in Public Address Book has been increased from 32 to 128. [4.6.2]

• SPR# MTHD3QRR6P - Correct problem in Version 1.1.04 of the SMTP MTA that causes the MTA to convert periods in the user name into spaces if there is no space already in the user name. [4.6.2]

• SPR# CMOS3QKLJH - Correct problem where R4.6 SMTP MTA on Windows NT 4.0 does not retry when unable to contact the DNS server. [4.6.2]

• SPR# CMOS3RURDC - Prevent SMTP MTA hang when processing outbound messages with incomplete tables. [4.6.2]
- SPR# LAE3MHKUL - Correct SMTP MTA problem with losing end mark of inbound SMTP messages. [4.6.2]
- SPR# SRED3LMLE9 - Changes to the "Internet address lookup" and "Internet domain suffix" fields are now properly refreshed by "Tell SMTPMTA Refresh". [4.6.2]
- SPR# MCHT3QCJST - Remove case sensitivity from entries in Denied Domains list used by SMTP MTA for Spam prevention. [4.6.2]
- SPR# MCHT3QANJ7 - Spam attempts resulting from failed HELO verification or denied domain connections are now logged by SMTP MTA. [4.6.2]
- SPR# MCHT3PVLJE - Correct problem preventing SMTP MTA from finding the Name Server on Windows NT if configured as DHCP client. [4.6.2]
- SPR# CMOS3QKLJH - SMTPMTA on Windows NT 4.0 now retries connections to DNS server up to configured limit before it sends a non-delivery notice back to the originator. [4.6.2]
- SPR# KTAA3BH9K4 - SMTP MTA no longer leaves temporary files at root on Windows NT after failing outbound messages that exceed maximum configured size. [4.6.2]
- SPR# GRCO3SJLUM - SMTP MTA now correctly logs the configured listening TCPIP port if not port 25. [4.6.2]
- SPR# RSIN3RTK3W - SMTP MTA now properly responds with SMTP protocol RSET command after 550 Error to RCPT TO:<command occurs. [4.6.2]
- SPR# PBLD3QRL7T - Prevent SMTP MTA from receiving RFC 1049 uuencoded messages as attachments with att1.unk as the file name. [4.6.2]
- SPR# KHAD3RBPU4 - SMTP MTA Delivery Report Task now cleans up deletion stubs in SMTP MTA inbound workqueue, outbound workqueue and SMTP.BOX. [4.6.2]
- SPR# RNES3HE5R9 - Change SMTP MTA to generate a unique name for inbound attachments based on the original name and if there is more than one attachment with same name. A duplication counter is appended to the name. [4.6.2]
- SPR# BROE3RRLJY - Correct problem in SMTP MTA that prevents outbound mail from Notes users with certain Windows code page 1257 Lithuanian characters in name even with ASCII short name configured. [4.6.2]
- SPR# DCOO3S9MY2 - Prevent SMTP MTA address parsing error when processing mail to non-Internet recipients with address containing multiple '@Notes domains'. [4.6.2]
- SPR# ALAE3TCQYG - Prevent SMTP MTA crash when a Denied Domain List (Anti-SPAM Feature) with only one entry is specified. [4.6.2]
- SPR# PBLD3SFQRA - Prevent SMTP MTA hang when processing outbound mail containing attachment of zero bytes. [4.6.2]
- SPR# DMNL3U3QZJ, MMCH3TB2DZ - Prevent SMTP MTA hang processing outbound mail containing tables with keywords, radio-buttons or check boxes and narrow left margin. [4.6.2]
- SPR# MMIO3L3GUG - Correct faulty prepended SMTP headers in the received Notes message when configured language is JP and Character Set detection is off. [4.6.2]
- SPR# MCHT3NSTR4 - Correct problem with very large (34MB) Inbound message which caused SMTP MTA in Domino 4.6 on AIX to crash. [4.6.2]
- SPR# PBLD3QXP58 - Prevent SMTP MTA outbound converter crash when processing messages from Notes users to the Internet containing corrupted bcc: recipients. [4.6.2]
- SPR# CBAW3KFQ7P - Correct inbound inline text from being received by SMTP MTA as attachment named 00. [4.6.2]
- SPR# KLAT3LYLS2 - Correct problem in SMTP MTA when processing outbound mail with Lithuanian characters. [4.6.2]
- SPR# KLAT3LZLHQ - Correct processing of Turkish characters in outbound mail by SMTP MTA. [4.6.2]
- SPR# SYOA3LMA4Q - Improve the way SMTP MTA handles word breaks for Japanese Kinsoku characters. [4.6.2]
- SPR# KLAT3LZLMW - SMTP MTA now uses Windows code page 1257 instead of ISO 8859-4 for outbound mail processing to better support Lithuanian characters. [4.6.2]
- SPR# MCHT3JDPV3 - Change SMTP MTA to preserve SMTP headers and skip conversion if inbound mail is destined for a Notes recipient with an Internet forwarding address. This requires addition of the variable "SMTPMTA_RELAY_FORWARDS=1" to the NOTES.INI file. When this variable is set the MTA will check if a recipient has a forwarding address and if the forwarding address is an SMTP 821 address, it will relay the message back out without conversion. [4.6.2]
- SPR# LBUI3QXSWK - Enhance SMTP MTA to retain headers under some forwarding conditions. This requires the addition of "SMTPMTA_RELAY_FORWARDS=1" to the NOTES.INI file. When this variable is set the MTA will check if a recipient has a forwarding address and if the forwarding address is an SMTP 821 address, it will relay the message back out without conversion. [4.6.2]
- SPR# MBED3PWQHJ, MSHO3K9T83 - Prevent SMTP MTA from shutting down when processing outbound mail with 200 To:, cc:, and bcc: recipients. [4.6.2]
- SPR# PBLD3QWJWT - SMTP MTA now supports configurable line wrapping behavior through the use of a NOTES.INI variable, SMTPMTA_IB_TEXT_ALIGNMENT. [4.6.2]
- SPR# TPEL3TSQ4T - Prevent SMTP MTA crash when processing invalid MIME message with empty body part at end. [4.6.2]
- SPR# TPEL3U8GZ8 - Prevent SMTP MTA crash when processing outbound mail from Notes to the Internet that contains attachments without file names. [4.6.2]
- SPR# MCHT3RUU4H - Prevent SMTP MTA from crashing if it encounters an outbound encrypted message containing :bcc immediately after processing another outbound message containing a :bcc. [4.6.2]
- SPR# HKAi3MT4EJ - Prevent SMTP MTA from sometimes assigning duplicate Message IDs in the SMTP headers when the Notes user edits and resends the same mail message multiple times. [4.6.2]
- SPR# MMIO3LRAVS - Setting the NOTES.INI variable called SMTP_LEFT_DOT_NEVER_DOMAIN=1 prevents SMTPMTA from incorrectly processing mail to users whose name includes the Notes domain to the left of the @ and contains a period domain separator. [4.6.2]
- SPR# VAZ3SGCNP - Correct rejection of outbound mail by SMTP MTA when Notes domain contains a space and mail is restricted to Global Domain members. [4.6.2]
- SPR# CMOS3QNPQR - Prevent SMTP MTA from generating file names not supported on an OS/2 FAT partition when processing Macintosh file attachments. [4.6.2]
- SPR# KNON3PDQUC - Correct problem in SMTP MTA processing of outbound mail with address containing multiple @ signs. [4.6.2]
- SPR# MCHT3UXHMH - Prevent SMTP MTA crash when processing outbound message containing :bcc with illegal SMTP address. [4.6.2]
- SPR# MCHT3V4RU7 - Prevent SMTP MTA omsgcnv Outbound Conversion Handler Shutdown due to "Fatal Error: No such entry" because of an invalid :bcc. [4.6.2]
- SPR# CMOS3UXHHK - Correct SMTP MTA inbound message converter hang on MIME message with attachments with Type but no Subtype. [4.6.2]
- SPR# MCHT3V6JWU - Prevent SMTP MTA Delivery Report Task crash when generating an undeliverable message notification for an inbound message containing an unusual From: choice. [4.6.2]
- SPR# VSEN3STQKU - Correct inbound SMTP MTA processing of iCalendar attachments from Organizer 5.0 of Content-Type: text/x-lotus-calendar, so that these attachments do not become inline text when received. [4.6.2]
- SPR# CRAN3TYJP2 - Correct problem which causes Denied Domain list (an anti-Spam feature) to become inoperative when NOTES.INI is changed in any way while the SMTP MTA is running. [4.6.2]
- SPR # JPEY3UDTBG - Prevent SMTP MTA conversion error due to memory exhaustion when processing outbound mail containing subject with red characters and vertical bars. [4.6.2]
- "SPR# RRUP3B8V8V - Provide a new notes.ini variable, NOTES_NEW_DNPARSE, to address issues with X.400 and SMTP addresses containing plus signs [4.6.2]

**Template - All**
- SPR# HAY3UPHFE - Increase the width of columns that display dates in various templates to accommodate four digits in the year. [4.6.2]

**Template - Discussion**
- SPR# KSOA3QWSUG - Remove redundant actions from the Action menu in databases based on the Discussion template. [4.6.2]
- SPR# DBRO3R5JR2 - Correct a spelling error in an error window, "Archive Database Location Needed," in the Discussion and Document Library templates. [4.6.2]
- SPR# DBRO3QZLSU - Prevent empty Interest Profiles from being created in Discussion databases when a user selects Actions->Edit Interest Profile, but adds no data. [4.6.2]
- SPR# KSOA3RBJSM - Delete obsolete information in the Help document for the Discussion template. [4.6.2]

**Template - Document Library (R4.6)**
- SPR# DBRO3RVGJG - Fix a problem with the Mark/Unmark Expired action reporting "Specified agent does not exist" in the Document Library and Discussion templates. [4.6.2]
- SPR# DDUE3KXU5J - Provide logical links when filling out an Archive Profile in a Document Library database. [4.6.2]
- SPR# CLIR3KULAQ - Prevent documents from being marked unread in the Document Library database when executing the "Mark/Unmark Document as Expired" agent. This problem was fixed in R4.6.1 but omitted from the 4.6.1 Fixlist. [4.6.1, 4.6.2]
### Template - Events
- SPR# JPIU3RVC2S - Fix a problem which prevents the Reporter from trapping the event, "Could not locate view <Viewname>." [4.6.2]

### Template - Mailfile
- SPR# MOBN3RYV8E - Allow users to edit repeating Reminders without receiving error messages. [4.6.2]
- SPR# RMAS3NHK2C - Fix a problem with re-saving a Calendar entry removing the default alarm enablement. [4.6.2]
- SPR# POR3SPGSS - Allow mail delegation assistants to create Serial Route Memos in the delegated mailfile. [4.6.2]
- SPR# PDOE3RMRUE - Fix a problem where the workstation crashes when a user clicks Save and File in the mailfile after editing an already-received message. [4.6.2,4.5.5]
- SPR# MHAC3NSMRN - Correctly deliver C&S invitations to two people with the same common name but different organizations or organizational units. [4.6.2,4.5.5]
- SPR# PMNY3R6JUV - Fix a problem with the sorting of the Task Assignments view when using dates in international formats. [4.6.2,4.5.5]
- SPR# BLEE3LCANB - Fix two problems with C&S:
  1. When accepting a reschedule notice with update participants, the updated participants are now copied into the main calendar entry.
  2. When using drag and drop on repeating meetings, users are now queried as to which instances they want to have the modification.[4.6.2,4.5.5]:
- SPR# CDOS3LLTAH - Prevent a one-day event on the day that Daylight Savings Time begins from becoming a two-day event (because there are only 23 hours in that day). [4.6.2,4.5.5]
- SPR# DMKA3FCQFD - Allow Delegation Assistants with the proper access to create mail memos and send and save them. [4.6.2,4.5.5]
- SPR# UCHO3M6PGT - Correctly add any updated meeting participants to the main calendar entry when a reschedule notice is accepted. [4.6.2,4.5.5]
- SPR# COY3N5QQZ - Fix template use authorization stamp on the templates MAIL46.NTF and MAILC46.NTF to allow them to be used by the Notes Mail client. [4.6.2,4.6.1b]
- SPR# JHOD3MWPUH - Correctly change the time of the associated alarm when the time of a Reminder changes. [4.6.2]
- SPR# SSHE3TCKQS - Fix a problem with the Serial Route Memo not displaying the From field correctly at creation time. [4.6.2]
- SPR# CLIR3G5RVH - Prevent the display of error messages when creating a Calendar entry when a user has alarms enabled by default but removes the value from the minutes/days before/after fields. [4.6.2]
- SPR# MYAG3RSU6T - Fix a problem which occurred when rescheduling a meeting and not including any new invitees. Previously, if the Chair typed the names of the invitees in the SendTo field (although not required), many error messages were displayed and two Reschedule Notices were sent to each invitee. Now only one error message is displayed and only one Reschedule Notice is sent. [4.6.2,4.5.6]
Template - Master Address Book
- SPR# VDSE3TCR47 - Remove the field and table row for "Chase Referrals" in the Master Address Book since this feature was not implemented. [4.6.2]

Template - Microsoft Document Library (R4.6)
- SPR# JTHN3RVLZ4 - Prevent the error, "Variant does not contain an object," from appearing after entering a Reviewer's name while setting up a review cycle in a database based on the Microsoft Document Library template. [4.6.2]

Template - NNTP Discussion
- SPR# DMKA3KXRHP - Add the following information to the "Using this Database" document: "Documents in a thread won't be archived/removed until all the documents in the thread are eligible to be archived/removed". [4.6.2]
- *SPR# DDUE3QQTFG - Prevent the selected option (Archive/Delete) in the Archive Profile Document from being reverting to the default value (Delete). [4.6.2]

Template - Personal Address Book
- SPR# AASD3QK4Y6 - Correct the names of the timezones in the keyword list in the Location document to be the same names used in R4.5x. The so-called Alaska timezone was removed since it was a duplicate of the Yukon timezone and the Hawaii timezone was renamed back to Alaska-Hawaii. [4.6.2]
- SPR# TSHW3ULRCG - Allow typeahead addressing to work when using an Address Book from which the $NamesFieldLookup view has been deleted. [4.6.2]

Template - Personal Journal
- SPR# DMAS3RKRYB - Fix a problem with full-text search by form in the Personal Journal database. [4.6.2]

Template - Personal Web Navigator
- SPR# DSMH3QTQP5 - Add a "Go to Bookmarks" action button to the Personal Web Navigator database. [4.6.2]

Template - Public Address Book
- SPR# DSCT3SEJD9 - Allow the editing of Person records with a Web browser without losing or truncating the user's public keys. [4.6.2]
- SPR# CRAO3R4LN9 - Correctly delete the value of the Domain field in the Person record when changing a user's Mail System from Notes to Other Internet Mail so that it is no longer used in the person's address. [4.6.2]
- SPR# JPAI3T3RMS - Allow the first server in a cluster to be entered without running the Admin Process. [4.6.2]
- SPR# LCAL3SVSW7 - Fix problems with the ADMD name and DDA type fields in the X.400 section of the Public Address Book. [4.6.2]
- SPR# LBRD3T7PEG - Correct the spelling in the error message, "The Maximum number of characters you can have in the Run Unrestricted LotusScript agents is 255," which is received when incorrectly filling in a Server record in the Address Book. [4.6.2]
Template - Server Certificate administration
- SPR# KGiS3R6LAK - Fix the error handling when an incorrect password is entered while creating a server key ring so that an invalid key ring is not created (which then has to be deleted). [4.6.2]
- SPR# AHAN3SUHLL - Reword the help for the Key Ring Size on the dialog for "Create Server Keyring and Certificate" to explain the options for customers outside of North America. [4.6.2]

Template - Server Web Navigator
- SPR# DSMH3TDRZ3 - Fix a problem with the Purge Agent so that when it is set to delete documents it will delete documents (and not reduce the page), and when it is set to reduce the page it will reduce the page (and not delete documents). [4.6.2]

Template - Server.Planner
- SPR# RKAY3RVS4H - Fix a problem with the correct display of the Disk ID in Server.Planner: Vendor. [4.6.2]
- SPR# RKAY3UDLFM - Adjust default tolerance values and other parameters on the screen to maximize the query result list. [4.6.2]

Template - Web Administration
- SPR# MPEY3QFVWC - Disable the Button interface to Web Administration for Netscape 4.x browsers on the Macintosh because of a problem with the implementation of JavaScript. [4.6.2]
- *SPR# MBOD3RNPXU - Fix a problem with using Live Console when administering a server from the Web.

Template - Web mailfile
- SPR# MTAI3LQ9AH - Correctly display Calendar entries to a Web user when using the two-day view format in Far East time zones. [4.6.2]
- SPR# SAN3S9D78 - Fix a problem with incorrect data being inserted into address fields when using the Mail Address dialog with Webmail. [4.6.2]
- SPR# LSHW3TDQLL - Fix the display of the days of the week at the top of the screen on the Month calendar with a browser to be more readable. [4.6.2]
- SPR# LSHW3TDQQS - Improve the display of days of the previous and next month in the Calendar when using a browser. [4.6.2]
- *SPR# DJOS3SRKHW - Prevent the display of raw HTML in the header of memos created using Reply with History or Forward. [4.6.2]
Viewers

- SPR# PLAE3HQREA - Fix random font change that occurs in WordPro viewer. [4.6.2]
- SPR# PLAE3RDKEN - UNIX: Correct a hang when trying to view an .XLS bar chart on Sparc. [4.6.2]
- SPR# PLAE3RDPLQ - UNIX: Correct system hang when trying to view an .MDB file on Sparc. [4.6.2]
- SPR# MROE3V5RB4 - UNIX: Fix an issue on HP-UX 11 where users can't launch or view .NSF attachments. [4.6.2]
- SPR# PLAE3HQPC8 - Correct Univers 36-point font distortion that occurs in viewer. [4.6.2]
- SPR# PLAE3HQR4R, PLAE3PNQPH - Fix issue where graphic does not appear in WordPro viewer. [4.6.2]
- SPR# PLAE3HQRC8 - Correct display in WordPro viewer so lines are not clipped. [4.6.2]
- SPR# PLAE3TYTA9 - Add support for the new Euro currency symbol in the Notes viewers. [4.6.2]
- SPR# PLAE3PNQ87 - Correct display so data is not clipped in last column when using WordPro viewer. [4.6.2]
- SPR# PLAE3PNQ44 - Allow headers and footers to display and print in the WordPro viewer. [4.6.2]
- SPR# PLAE3RDMCJ - UNIX: Make .WK4 charts able to display on all pages in the viewer on Sparc. [4.6.2]
- SPR# PLAE3RDMHD - UNIX: Allow ESC key to exit the viewer window once you have navigated through a file (on Sparc platforms). [4.6.2]
- SPR# PLAE3RDK64 - UNIX: Fix unrecoverable hang on Sparc systems when trying to view a .PIC file containing a bar chart. [4.6.2]
- SPR# PLAE3NHQTA - Make the General formatting value appear correctly when using international settings. [4.6.2]
- SPR# PLAE3P6P4J - Make bullets display in WordPro viewer. [4.6.2]
- SPR# PLAE3P6PXB - Make bullets display correctly in the WordPro 96 viewer. [4.6.2]
- SPR# PLAE3PNPUZ - Make borders display correctly in the WordPro 96 viewer. [4.6.2]
- SPR# PLAE3PNQQRD - Fix so vertical line is no longer missing on page in WordPro viewer. [4.6.2]
- SPR# CBRN3GMQBA - Fix WordPro viewer so that document columns display correctly. [4.6.2]
- SPR# MHAC3KRPX9 - Make 1-2-3 line chart line elements display properly in the viewer. [4.6.2]
- SPR# PLAE3TCHWT - Update NOTES.INI to reflect new WordPro version numbers. [4.6.2]
- SPR# PLAE3UPJRF - Add a Viewer for Lotus 1-2-3 files with a .WK1 extension. [4.6.2]
Web Administration

- **SPR# JCHN3Q2M6W** - Only perform Address Book authentication if the user is accessing the \adm-bin directory; use the default authentication for other directories. [4.6.2]
- **SPR# MPEY3LOPXW** - Fix a memory leak which causes the HTTP or Domino server to crash when the Web Admin live console is left running for extended periods. [4.6.2]
- **SPR# MBOD3NJL7D, MBOD3LRS6U, MBOD3NZQZG, MBOD3NJLSR, MPEY3QGR6S** - Fix various cosmetic problems in the Web Administration template. [4.6.2]
- **SPR# MPEY3QJVY4** - Fix a problem with a Web Administrator being unable to remove all roles in a given ACL entry. Previously all but one role could be removed successfully, but the last one could not. [4.6.2]
- **SPR# TRSR3TMGTN** - Fix the Web Admin program to produce disk space statistics in non-English environments.

Web Navigator

- **SPR# CYTN3AGLLT** - Prevent the Notes Web Navigator from being started when Microsoft Internet Explorer or Netscape Navigator is selected as the browser of choice in the user's Location document. [4.6.2]
- **SPR# BKAN3BKN8A** - Fix a problem with some FTP directories from Macintosh FTP servers not being displayed. [4.6.2]
- **SPR# JFRK3RYTDF** - Fix problems with the strikethrough attribute displaying incorrectly. [4.6.2]
- **SPR# CWAR3T7T8D** - Prevent a crash when accessing certain Web sites. This problem was introduced in R4.6.1. [4.6.2]
- **SPR# CLIR3U8KN6** - Upgrade the Web Navigator and the Personal Web Navigator template to work correctly with Microsoft Internet Explorer 4.x. [4.6.2]

Web Server

- **SPR# DCUM3VZNPM** - Addressed the theoretical cryptographic flaw in the SSL protocol recently publicized by RSA Data Security.
- **SPR# CBAN3T6SSW** - Fix an HTTP server crash when a host name is configured incorrectly with more than six segments. [4.6.2]
- **SPR# MJAS3S4PGE** - Fix a problem with square braces appearing in pass-thru HTML computed for display fields included in a paragraph assigned with a style named HTML. [4.6.2]
- **SPR# JCHN3TEGWY** - Correctly release resources used by Java servlets when shutting down the HTTP server. [4.6.2]
- **SPR# JCHN3RELAU** - Prevent file attachments from being accessible through the file cache after they are deleted from documents. [4.6.2]
- **SPR# MJAS3TRPZH** - Prevent garbage anchor tags from being generated on some URLs pasted into hotspots. [4.6.2]
- **SPR# DSCZ3U8JAY** - Fix the display of the Euro currency symbol in Web applications. [4.6.2]
- **SPR# SSHE3S7TZK** - Prevent a possible denial of service attack on the HTTP server. [4.6.2]
- **SPR# CRAO3SMLFG** - Correctly include an ending right parenthesis on a URL when sending it to a browser. [4.6.2]
• SPR# CRAO3T3KY9 - Handle mouse clicks correctly on documents created from forms that have the default setting, "On Open: Automatically enable Edit Mode," through a Web browser. [4.6.2]

• SPR# JCHN3RNQ69 - Fix HTTP server configuration files for Java servlet support on UNIX servers. [4.6.2]

• SPR# MJAS3QKR2Z - Fix a problem with HTML attributes not being generated correctly for shared fields. [4.6.2]

• SPR# RSCZ3RNSB5 - Fix a crash if the HTTP server tries to process a form which has a field without a name. Now an appropriate error message is returned. [4.6.2]

• SPR# SONL3RKSYL - Allow Global Server ID's used in SSL strong crypto for export to use more cipher combinations, including DES and 3-DES. [4.6.2]

• SPR# MJAS3S9RYX - Fix a problem which causes occasional URL redirection failure when DominoAnalyzeFormulas are enabled. [4.6.2]

• SPR# LSR3Q9L4F - Only generate HTML FORM tag with ENCTYPE="multipart/form-data" when file upload control is present since some proxy servers won't allow FORMs to be posted with this encoding type (due to a Netscape Navigator security bug). Also, when this encoding type is used, Netscape Navigator often leaves temporary files in the user's temp directory, which is a potential security problem. [4.6.2]

• SPR# LEZ3VZEAE - Prevent the conversion of accented characters in META tags and in JavaScript to HTML entities by providing US-ASCII as a character set choice for the HTTP server in the Server document of the Address Book. [4.6.2]

• SPR# HAY4KJJQM - Fix a problem with HTML translation by the HTTP Server after the year 2024. [4.6.2]

• SPR# KGIS3TBQHJ - Fix a potential denial of service attack in the HTTP Server. [4.6.2,4.6.1b]

• SPR# DCUM3RSJ84 - Provide two new NOTES.INI variables to enable server administrators to have more control over how Web users authenticate:

  - NoAmbiguousWebNames -- When this variable is set, the Web user name will have to match one and only one name in the Address Book before a match on the HTTP password in the Person record is attempted.

  - NABWebLookupView=ViewName -- Server administrators can now design a new view in the Address Book to be used to match a Web user's name with the Person record names. By default we use the Name column of the $Users view to look up the name and the formula for this column includes a variety of names which are used by other Domino server processes. We will now allow server administrators to construct their own formula in the Name column of their own view. [4.6.2,4.6.1b]

• SPR# CBAN3NQ2H2 - Allow the HTTP server to begin responding to requests immediately after starting. Previously, under certain configurations involving large numbers of virtual servers, there was a long delay before requests were served. [4.6.2,4.6.1b,4.6.1c]

• SPR# KGIS3SSPM86 - Fix a problem with redirected virtual HTTP servers returning incorrect URL information. This problem was introduced in R4.6.1. [4.6.2,4.6.1c]

• SPR# MKEN3U2UHL - Fix a problem where welcome pages for virtual hosts are ignored and users are always redirected to the home page of a virtual server, if one is defined. This problem was introduced in R4.6.1b. [4.6.2,4.6.1c]
- SPR# BSAD3CURQ2 -- Fix a problem where submitting a form from Microsoft Internet Explorer will sometimes cause an erroneous "Server connection was reset" error to be reported. This problem was fixed in R4.5.1 and reintroduced in R4.6.1. [4.6.2,4.6.1c]
- SPR# MJAS3SHTVU - Fix a potential denial of service attack in the HTTP Server. [4.6.2,4.5.5]
- SPR# SMDN3PLM4W - Fix a problem which causes Web client authentications to fail if the user's Person record is in a secondary address book. This fix also improves performance when searching several address books during any authentication. [4.6.2,4.6.1a,4.5.5]
- SPR# ADIE3TLKZ9 - Prevent an HTTP server crash when a Web browser attempts to open a view and an invalid modification date for the view is returned. [4.6.2]
- SPR# TRSR3TLRPA - Fix a problem with creating Certificate Authority Key Ring on UNIX systems in which they expire after only three days (instead of ten years) in countries where the comma is used as the decimal separator. [4.6.2]
- SPR# JCHN3TYQ2Q - Display the entire version string in the HTTP server header. [4.6.2]
- SPR# JCHN3SVP3F - Prevent agent corruption caused by a user with insufficient access rights attempting to edit and save an agent. This corruption resulted in the Web Server returning, "Error 500: Invalid or nonexistent document," until a person with sufficient access resaved the agent. [4.6.2]
- SPR# MKEN3UAPNE - Fix a problem with truncation of more than 16 characters of the "IP address or virtual host name" in a Virtual Server record in the Address Book. This problem restricted this field to an IP address and prevented the use of a host name. [4.6.2]
- SPR# PSTS3TKLBL - Fix a major memory leak which occurs when a Java servlet is executed on the HTTP server. [4.6.2]
- SPR# JCHN3ULGLB - Fix a problem with erroneous save conflicts being generated when documents are updated via a Web browser when the Domino server is in a cluster. [4.6.2]
- SPR# AWHN3QZMXF - Maintain the correct view sorting when clicking on a column header link to sort a view and then clicking on an expand or collapse link within the view using a Web browser. [4.6.2]
- SPR# KGIS3TUQ6P - Fix a crash of the HTTP server caused by a memory overwrite when a CGI program does not send a "\n" character within the first 4K of output. [4.6.2]
- *SPR# DCUM3VZNPM - Addressed the theoretical cryptographic flaw in the SSL protocol recently publicized by RSA Data Security. [4.6.2,4.5.6]
- *SPR# CMAM3UDQZW - Fix server hangs with the HTTP process very high in CPU utilization when accessing tables with hidden fields. [4.6.2]
- *SPR# DMKA3TLQ6V - Allow a user in the secondary Address Book who has the same common name as as user in the primary Address Book proper access. [4.6.2]
- *SPR# JCHN3TKK5A - Prevent the HTTP server (or the Domino server) from crashing when servlets are run more than once. [4.6.2]
- *SPR# KGIS3VGQ22 - Fix a problem which prevented the use of SSL for the HTTP server in certain OS/2 configurations. "Press any key to continue" would be displayed on the server console after the HTTP server was started. [4.6.2]
- *SPR# SSHE3VHV52 - Fix a problem with the file cache for attachments on documents which resulted in error messages about files not found. [4.6.2]
- *SPR# SONL3QNULD - Provide the same level of security for basic HTTP authentication as is provided for SSL x.509 certificates. A Master Address Book should be set up and secondary Address Books marked as "Trusted" in order to allow authentication for both. Secondary Address Books as entered in the NAMES= line in the notes.ini will no longer be used. [4.6.2]
- **SPR# SONL3LRMSE** - Work around a problem in Netscape Navigator which returns an error, "A network error occurred while Netscape was receiving data (Network Error)...Try connecting again," on the first attempt to connect to a server over SSL with a client certificate when there is a password on your local database where the certificate is stored. [4.6.2]

- **SPR# SONL3TUR77** - Allow the installation of a Trusted Root into the Key Ring using a SHA-1 message digest. [4.6.2]

- **SPR# SONL3ULTJH, SONL3UFMN8** - Provide a more accurate error message, "Certificate is already in the key ring," when attempting to install a trusted root into your server key ring twice. [4.6.2]

- **SPR# SONL3VGU3K** - Allow the use of large key sizes for your server created using the SSL administration application. Formerly clients would receive an error when trying to establish a session that the server received bad data. [4.6.2]

**Web Server - UNIX only**

- **SPR# STAR3UFGRC** - Fix a crash of the HTTP server on AIX when accessing a web page through a browser which uses Server-side Includes (which are not supported by the HTTP server). [4.6.2]

- **SPR# HPES3V5TQM** - Fix an HTTP server crash on Unix caused by large hide formulas. [4.6.2]

- **SPR# SSHE3RBMYY** - Fix a problem on the HTTP server on Unix that prevented ports from being accessible when the server was restarted if the listen sockets were not marked as reusable. [4.6.2]

**Total Fixes: 450**

**Notes.ini Parameters**

The following are logged in the sections above but are compiled here for convenience. For a complete list of Notes.ini parameters now supported by the SMTP MTA in R4.6.2, refer to the "What's New" section of the R4.6.2 release notes.

**CLIENT**

- **SPR# BSWN3S7KAN** - Support the NOTES.INI variable, InitialCacheQuota, which specifies the size of CACHE.DSK in kilobytes, e.g., InitialCacheQuota=1024 specifies a 1 megabyte file, instead of the default size of 5 megabytes. [4.6.2,4.5.5]

- **SPR# BMUY3J4QWL** - Provide a new NOTES.INI variable, DontPrintFTHighlights=1, to prevent the printing of the outline around words found during full-text search. [4.6.2,4.5.5]

- **SPR# KISA3N6692** - Allow the user to always exchange unread marks during workstation replication by setting the NOTES.INI variable, REPLICAATOR_SYNC_UNREAD, to -1. Please note that using this feature will result in severe performance degradation when replicating and that support for this NOTES.INI variable may be removed in future feature releases if this feature is enabled differently. [4.6.2,4.5.5]

- **SPR# MALZ3L4U2T** - Introduce a new NOTES.INI variable (NSF_UNREAD_METHOD=1) which changes the behavior of unread marks in a database which is accessed by more than one application using the notes API (including Notes itself, and Organizer 97 GS). This change will cause the unread status of a document to be affected only by the application directly touching the document. [4.5.5,4.6.2]
LAN/WAN

- SPR# MGRS3QPEW6 - Allow Windows 3.1 clients to use Calendaring and Scheduling alarms over TCP/IP by changing the default timeout value from 20 to 30 seconds, and by adding a NOTES.INI setting (WKSDMN_WAIT_FOR_STARTUP_SEC) to control the timeout value for node installs. Previously the error, "The Notes Winsock Daemon _WSKDMN.EXE could not be loaded," appeared on slow connections. [4.6.2,4.5.5]

SERVER

- SPR# SMUN3U7VF3 - Provide a new capability to restrict the times of day when the Admin Process runs. Two new NOTES.INI variables are introduced, ADMINP_RESTRICTTIME_BEGIN and ADMINP_RESTRICTTIME_END, which are each set to a time using 24 hour notation (such as 22:30:00 to specify 10:30 PM). The begin time should be before the end time and the interval should not span midnight. [4.6.2]

SMTP MTA  (For a complete list of Notes.ini parameters now supported by the SMTP MTA in R4.6.2, refer to the "What's New" section of the R4.6.2 release notes.)

- SPR# MCHT3JDPV3 - Change SMTP MTA to preserve SMTP headers and skip conversion if inbound mail is destined for a Notes recipient with an Internet forwarding address. This requires addition of the variable "SMTPMTA_RELAY_FORWARDS=1" to the NOTES.INI file. When this variable is set the MTA will check if a recipient has a forwarding address and if the forwarding address is an SMTP 821 address, it will relay the message back out without conversion. [4.6.2]

- SPR# LBUI3QXSWK - Enhance SMTP MTA to retain headers under some forwarding conditions. This requires the addition of “SMTPMTA_RELAY_FORWARDS=1” to the NOTES.INI file. When this variable is set the MTA will check if a recipient has a forwarding address and if the forwarding address is an SMTP 821 address, it will relay the message back out without conversion. [4.6.2]

- SPR# PBLD3QWJW7 - SMTP MTA now supports configurable line wrapping behavior through the use of a NOTES.INI variable, SMTPMTA_IB_TEXT_ALIGNMENT. [4.6.2]

- SPR# MMIO3LRAVS - Setting the NOTES.INI variable called SMTP_LEFT_DOT_NEVER_DOMAIN=1 prevents SMTPMTA from incorrectly processing mail to users whose name includes the Notes domain to the left of the @ and contains a period domain separator. [4.6.2]

WEB SERVER

- SPR# DCUM3RSJ84 - Provide two new NOTES.INI variables to enable server administrators to have more control over how Web users authenticate:

  NoAmbiguousWebNames -- When this variable is set, the Web user name will have to match one and only one name in the Address Book before a match on the HTTP password in the Person record is attempted.

  NABWebLookupView=ViewName -- Server administrators can now design a new view in the Address Book to be used to match a Web user's name with the Person record names. By default we use the Name column of the $Users view to look up the name and the formula for this column includes a variety of names which are used by other Domino server processes. We will now allow server administrators to construct their own formula in the Name column of their own view. [4.6.2,4.6.1b]
Client, Designer, Server

4.6.2a Quarterly Maintenance Update (QMU)

Lotus Notes and Lotus Domino Release 4.6.2a
Quarterly Maintenance Update (QMU)

This notice is to inform you that there is a Quarterly Maintenance Update (QMU) to R4.6.2. The QMU is called R4.6.2a and contains seventeen fixes. Below is the fix list for R4.6.2a. This QMU is applicable to all platforms for the R4.6 client and server.

API
- SPR# AWAG3XCSCK - Fix a problem introduced in R4.6.2 with NSFNoteAttachOLE2Object which prevented an API program included in the Samples directory from running. [4.6.2a]

Client
- SPR# WTRT3VGC37 - Fix a slow memory leak when using Notes OLE automation (i.e., running a Visual Basic program that accesses Notes objects continually through a loop over a long period of time). [4.6.2a]
- SPR# WEVT3VPP9R - Fix redraw problems in a view opened from the Portfolio database which caused other databases listed in the Portfolio database to disappear or become unable to be selected. Note that there are still problems in the Portfolio database on the AIX platform which are under investigation. [4.6.2a]
- SPR# JCHN3X4FZT - Prevent access to databases by other clients on a local intranet during and after the use of the Preview in Web Browser feature (which runs the HTTP server locally). [4.6.2a]
- SPR# MCHT3X2J54 - Prevent a workstation crash caused by attempts to handle an attachment with a very long filename (more than 256 characters on Windows 95 and Windows NT). [4.6.2a, 4.5.6]
- SPR# JCHS3WKHCB - Prevent the server part of database filenames stored in desktop.dsk from being changed to an incorrect hierarchical server name for non-hierarchical users. [4.6.2a]

Server
- SPR# SCHN3U2EAB - Fix a problem with the incomplete full-text indexing of attachments. This problem was introduced in R4.5.5 and R4.6.1. [4.6.2a, 4.5.6]

Server - Unix only
- SPR# KMAA3SF6TE - Allow databases on Domino Servers for HP-UX to have a maximum size of 4 gigabytes. Large file sizes are not supported natively in the other supported Unix operating systems so this issue is not addressed on any Unix platform except HP-UX 11.x. [4.6.2a]
- SPR# SGOE3WNN6P - Prevent another instance of Unix servers crashing and reporting "PANIC: List Entry count in TEXT_LIST is invalid." [4.6.2a, 4.5.6]
SMTP MTA
- SPR# LCAL3WWMQ3 - Fix a problem with the leading quote being stripped from SMTP addresses when using the NOTES_NEW_DNPARSE notes.ini variable introduced in R4.6.2 to address issues with X.400 and SMTP addresses containing plus signs. [4.6.2a]
- SPR# MMFD3XHJZB - Fix a problem with SMTP MTA headers prepended to received mail containing an incorrect version number, "Lotus SMTP MTA Internal Build," instead of 4.6.2. [4.6.2a]
- SPR# ALAE3WSRWQ, KWAE3WN7MG - Provide a new notes.ini variable, SMTPMTA_NO_INLINE_CONTENT_DISP=1, to disable the RFC 1806 support (which displays inbound mail as inline text instead of as an attached file) which was introduced in the R4.6.1 SMTP MTA. [4.6.2a]
- SPR# SRAO3XBL3U - Fix a build problem in the North American Domino server which prevented the inbound transport of SMTP MTA from working. [4.6.2a]

Templates
- SPR# JRAS3XR2ZW - Force system databases (Address Book, Log, mail.box, and Personal Web Navigator) to refresh their designs from the latest R4.6.2 templates in order to take advantage of template changes. [4.6.2a]

Template - Web Administration
- SPR# TGUZ3XHSGH - Fix a problem introduced in R4.6.2 which caused Web administration using a browser to fail with the error, "Document has been deleted," after replacing the design of the Web Administration database with the new template. [4.6.2a]

Web Navigator
- SPR# HCUO3XFQ7E - Allow secure connections to the new release of Netscape server, 3.0F. [4.6.2a]

Web Server
- SPR# GJEX3X9UQM - Provide a new notes.ini variable, NoMABForWebNames=1, which causes the HTTP server to use the NAMES= line in notes.ini instead of using the Master Address Book to determine which Address Books to use for Web basic authentication (user name, password). Note that the Master Address Book dictates client certificate cascading behavior, as it always has. Furthermore, in future feature releases the Trusted field in the Master Address Book will be used for authentication as well and support for this notes.ini variable will be removed. [4.6.2a]

Client, Designer, Server

4.6.2b Quarterly Maintenance Update (QMU)

Lotus Notes and Lotus Domino Release 4.6.2b
Quarterly Maintenance Update (QMU)

This notice is to inform you that there is a second Quarterly Maintenance Update (QMU) to R4.6.2. The QMU is called R4.6.2b and contains 18 fixes. Below is the fix list for R4.6.2b. This QMU is applicable to all platforms for the R4.6 client and server. Due to the proximity to R4.6.3, R4.6.2b will be a web only download. No CDs will be made available.
R4.6.2b QMU fixes

All Platforms

API
SPR# MDOR3YYMTF - Fix a crash in CompoundTextAddRenderedNote when processing empty
Keyword fields with a checkbox or radiobutton interface.

SPR# AWAG3XYPF6 - Prevent a crash caused by calling NSGetServerList more than once in a loop
when NotesInitExtended and NotesTerm are called before and after. This problem was introduced in
R4.6.2.

SPR# VROZ3YKJYA - Fix a problem which prevented deleted documents from being removed from
folders (via the API or LotusScript). This problem was introduced in R4.6.2.

SPR# SAUA3YLRH4 - Prevent a hang in an API program which calls NSFProfileOpen from within the
call-back function specified in the function NSFProfileEnum. This problem was introduced in R4.6.2.

Client
SPR# BLON3UMPRC - Fix a problem with saving OLE objects in a document created with a form
with the 'Save Form in Document' attribute which caused object corruption during a subsequent edit
of the document.

SPR# MHEG3ZQRDX - Fix a problem with client sessions remaining open on a server
inappropriately. This change also fixes a problem with the ReplicateWithServer and
ReplicateWithServerExt API calls requiring a full hierarchical name (reporting the error, "Unable to
find path to server," when passed only the common name). This problem was introduced in R4.6.2a.

IMAP
SPR# LAE3YKHWE - Prevent email addresses from being truncated under certain circumstances by
the IMAP server.

LDAP
SPR# MOBN3UVRT3 - Return complete addresses for users (including the domain) in cascaded
Address Books included in the Master Address Book even when there is no Global Domain record
with the "Use as default Global Domain" checkbox checked. In R4.6.2b and R4.6.3, another problem
with incomplete addresses being returned for LDAP users in cascaded Address Books is fixed.

SPR# RPAS3XFQ8X - Use the Internet Domain suffix from a Global Domain server document
correctly when constructing email addresses.

Server
SPR# KNIL426RYA - Fix a problem with users receiving the error, "Server error: Insufficient
memory," from servers with slow disks.

SPR# MSAN3VTLWQ - Prevent a server crash caused by folder corruption in databases.

SPR# TNIT3XAPBX - Fix a problem with the Router delivering mail to a user whose name is the
same as another user in the Address Book instead of reporting the name as ambiguous.

SPR# SVRO425S42 - Fix a potential server performance problem when clients are opening the
Address Book and unread marks are being updated. This problem has been in the product since
R4.5.
**Lotus Notes and Domino 4.6.5 Release Notes**

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**SPR# PCOL3ZUETU** - Fix a problem with unscheduled replication taking place after changes are made to the Address Book. The last successful replication time was not being carried forward when the server schedule was rebuilt. This problem was introduced in R4.6.2.

**SPR# CPEN3YUKW9** - Fix a crash in a Domino process which results from the reuse of data in a memory block previously assigned to another Domino process which failed to terminate correctly. Investigations to this point have found several third-party Notes API programs which produce this problem; we are working with the vendors to address the issue. The crash is most often seen in Chronos, but only because that is the Domino process which starts up most often; it will happen in any process which starts up with the stale data. This fix will cause the process which crashed in R4.6.2 to hang as it did in all releases prior to R4.6.2. We are still working on a more satisfactory fix for a future release of Domino.

**LS:DO**

**SPR# PJAN3ZEKSY** - Fix a problem with a hang caused by processing data from table columns that have special, non-alphanumeric characters in the column name.

**Windows 95/NT only**

**Install**

**SPR# PMGL3RTUUD** - Fix a problem with install failing on Windows NT, Windows 95, and Windows NT Alpha systems with a version of COMCTL32.DLL in the Windows directory with a date and time of 11/17/97 and 4:28 PM. This DLL is installed by other application programs such as Internet Explorer.

**SPR# BHIR423NF8** - Fix a problem with Uninstall failing for node client installations. This problem was introduced in R4.6.2.

**Client, Designer, Server**

**4.6.2c Quarterly Maintenance Update (QMU)**

**Lotus Notes and Lotus Domino Release 4.6.2c**

**Quarterly Maintenance Update (QMU)**

This QMU addresses the problem with improper execution of LS:DO (LotusScript Data Objects) that was found in R4.6.2b. There are no other changes included in this release. We apologize for any inconvenience we may have caused you and thank you for your patience.
Notes and Domino Release 4.6.3 features and enhancements

New Features expanding Domino enterprise integration capabilities:

Beginning in Domino and Notes Release 4.6.3, Lotus has introduced three new features that further expand data integration capabilities for our customers:

**Domino Enterprise Connection Services (DECS)** - Domino Enterprise Connection Services (DECS) is a new forms-based technology in Domino that provides the capability to integrate live data from enterprise systems natively into Domino applications.

**Domino Connector LotusScript Extension Classes** - New Domino LSX classes are available to provide a consistent programmatic interface to enterprise systems accessed through applications written in LotusScript.

**Domino Enterprise System Connectors** - New modules called Domino Connectors provide native connectivity to external sources either through the forms-based development tool in DECS, or through new Domino classes using LotusScript. In addition, a Domino Connector Toolkit (available separately from Lotus) will provide developers with tools and information to build additional Domino Connectors.

For more information see the "New Features" section of the What's new chapter in these Release Notes for details.

**Domino Certificate Authority support for S/MIME**

In Domino R4.6.3, the Domino Certificate Authority (CERTCA.NTF) now generates X.509 V3 certificates that include additional fields required by S/MIME clients. Since S/MIME clients require that the X.509 V3 distinguished name field contain the owner's Internet mail address, the Domino CA will generate certificates for use by e-mail as well as authentication. Any e-mail client (like Communicator, Eudora, etc) that supports S/MIME will be able to access a Domino server to send encrypted mail.

**Public Address Book template support for Sametime Server**

The Domino Public Name and Address Book template now contains a field asking, "Is this a Sametime server?" By default in 4.6.3, this field is marked 'no'. For Domino servers, this field should be left at the default value of 'no'. If this field is marked 'yes' a section called "Sametime Server" will appear in the Server document. This section contains fields that will be used only on Sametime servers, when Sametime is made available at a later date. See the Installation section of the Things you need to know chapter in these Release Notes for additional information.

**SMTP MTA support for the Euro currency symbol**

The ability to send and receive the Euro currency symbol over the Internet has been added to the SMTP MTA in Domino 4.6.3. This support is enabled by use of a new notes.ini parameter SMTPMTA_SUPPORT_EURO=1. See the Additional new features section of the Things you need to know chapter in these Release Notes for additional information.

**Java support**

In addition to the new versions of Java support shown below, Notes and Domino Release 4.6.3 has successfully passed Sun's Java Compatibility Test Suite and is declared Java Compatible™. See the New Features section of the What's new chapter in these Release Notes for additional information.

<table>
<thead>
<tr>
<th>Win32 (Intel and Alpha)</th>
<th>Solaris (Sparc and Intel)</th>
<th>AIX</th>
<th>HP-UX</th>
<th>OS/2</th>
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<tbody>
<tr>
<td>JRE 1.1.6</td>
<td>JRE 1.1.6</td>
<td>JRE 1.1.6</td>
<td>JDK 1.1.2 (\text{as part of OS})</td>
<td>JDK 1.1.6</td>
</tr>
</tbody>
</table>
4.6.3: Domino Enterprise Connection Services, Connectors

For the Domino and Notes Release 4.6.x code stream, beginning in Release 4.6.3, new data integration functionality has been made available to Lotus customers.

**Domino Enterprise Connection Services (DECS):** A new forms-based technology in Domino that provides the capability to integrate live data from enterprise systems natively into Domino applications. DECS provides an integrated, non-programmatic tool for connecting Web applications to live data from relational databases, transaction systems or ERP applications. These new features also offer unique performance benefits for accessing external data through the Domino Server Extension Manager, eliminating requirements to process scripts for back-end data access. DECS manages persistent and pooled connections from the Domino server to supported external data sources, providing efficient, simultaneous access to external data from Domino applications.

**Domino Connector LotusScript Extension (LSX) Classes:** The Lotus Domino Connector LSX, also referred to as the Domino Connector object classes, provides a consistent object model in LotusScript that may be used to manage programmatic access to external Domino Connector data sources. Domino Connectors supported include: DB2/UDB, Oracle, Sybase, EDA/SQL, Text, File, ODBC and Notes.

**Domino Connectors** - modules which provide native connectivity to external sources either through the forms-based development tool in DECS, or through the new Domino classes using LotusScript. Domino Connectors included with this release include: DB2/UDB, Oracle, Sybase, EDA/SQL, Text, File, ODBC and Notes. In addition, the Domino Connector Toolkit, available separately from Lotus, will provide developers with tools and information to build additional Domino Connectors.

Starting with Domino 4.6.3, DECS, the Domino Connector LotusScript Classes and the Domino Connectors are installed as part of all Domino new and upgrade installations. While all of the needed files are installed, in 4.6.3 the DECS feature is not enabled by the install program. See the document "Installing and enabling DECS" in the Things you need to know chapter of these Release Notes for more information.

4.6.3: Java logo testing for Notes and Domino

Sun has created the "Java Compatible™" logo for companies developing products with or based on the Java technology.

The "Java Compatible" logo was designed for Java OEM source licensees who license the Java runtime source code to integrate Java into their commercial products.

Products bearing this logo have successfully passed the Java Compatible Test Suites.

The Java certification, as Lotus/IBM has tested for it, is assurance that the Java Virtual Machines (JVM) shipped with Notes and Domino meet the full Sun compliance specs as set out by the Java Compliance Kit. Where Lotus has compiled the JVM from source code (on Win32 Intel, AIX, and Solaris), Lotus is required to run and pass the full Java Compliance Kit suite. For other JVMs shipped with Notes and Domino that are only repackaged (such as OS/2 and Win32 Alpha), such JVM's retain their original compliance status.

**NOTE:** On HP-UX, as noted throughout the 4.6.3 Release Notes, Lotus relies upon an external JVM provided by Hewlett Packard. For HP-UX Lotus does not ship the JVM code with Domino.
For additional information about Java, please see the following Sun Web sites:

http://java.sun.com/nav/business/licensed-logos.html
http://java.sun.com/

For additional information about Java usage with Notes and Domino, see the online help documentation and the various Release Notes documents that discuss Java implementation.

Client, Designer, Server

Notes and Domino Release 4.6.3

Notes and Domino R4.6.3 Final Fix List (as of 1/07/99)

Below is the second and final update of the fix list for Notes/Domino Release 4.6.3. It is based upon the original fix list posted on 12/18/98 with more enhancements added. New additions to the list on 1/07/99 are denoted by an asterisk (*) before the SPR number. Please note that this list and the Release Notes found on the web are more current than the printed release notes and the online release notes found on the 4.6.3 CD.

It should be noted that all the fixes listed, including the new additions to this list, are already in the R4.6.3 code. However, due to the large number of fixes to the R4.6.3 product, it has taken some time to compile the list. We appreciate your patience.

Note: There are two fixes in the area of Templates and LDAP that provide upward compatibility to Release 5 (R5) of Notes and Domino.

API

- SPR# HDAN3LCPDX - Correctly null terminate the string returned in the ForwardAddress argument in MailFindNextHopToRecipient. [4.6.3]
- SPR# MDOR3YYMTF - Fix a crash in CompoundTextAddRenderedNote when processing empty Keyword fields with a check box or radio button interface. [4.6.3,4.6.2b]
- SPR# AWAG3XYPF6 - Prevent a crash caused by calling NSGetServerList more than once in a loop if NotesInitExtended and NotesTerm are called before and after. This problem was introduced in R4.6.2. [4.6.3,4.6.2b]
- SPR# SBON3FGKDX - Expose the extension manager symbol, EM_NIFLOCATENOTE, for the function NIFLocateNote correctly in extmgr.h. [4.6.3]
- SPR# SBON3FWPB4 - Expose the extension manager symbol, EM_TERMINATENSF, in extmgr.h. [4.6.3]
- SPR# SAUA3YLHR4 - Prevent an API program which calls NSFProfileOpen from within the call-back function specified in the function NSFProfileEnum from hanging. This problem was introduced in R4.6.2. [4.6.3,4.6.2b]
- SPR# MDOR3UPJQ4 - Fix a problem with the icon and title of newly created databases created outside the data directory not appearing properly in the File->Database->Open dialog. [4.6.3]
- SPR# AWAG3XCSCK - Fix a problem introduced in R4.6.2 with NSFNoteAttachOLE2Object which prevented an API program included in the Samples directory from running. [4.6.2a,4.6.3]
- SPR# JCD3PCRQ - Correctly replicate documents contained in private folders when using ReplicateWithServerExt. [4.6.3]
- SPR# MHEG3QRDX - Fix a problem with client sessions inappropriately remaining open on a server. This change also fixes a problem with the ReplicateWithServer and ReplicateWithServerExt API calls requiring a full hierarchical name (reporting the error, "Unable to find path to server," when passed only the common name). This problem was introduced in R4.6.2a. [4.6.3,4.6.2b]
- *SPR# SPR3XYTDQ - Fix a problem with the Extension Manager ignoring error codes returned for EM_AFTER calls incorrectly. In previous releases, the Extension Manager would correctly abort other Extension Manager calls (for the same event) after any one returned a code other than ERR_EM_CONTINUE for EM_BEFORE calls only. [4.6.3]
- *SPR# JHAM3JSY8 - Fix a problem with NSFNoteFindMatchingItem not returning an error if the two items have different values and causing a crash or a system hang when the second note doesn't have the item at all. [4.6.3]
- *SPR# RBOO3DN7U - Correct the Extension Manager callout arguments for NSFDbSpaceUsage, NSFNoteOpenByUNID, and NSFDbFreeObject. [4.6.3]
- *SPR# AWAG3R7QEZ - Fix calls to NSFDbCopyExtended with the flag DBCOPY_REPLICA set to copy profile documents as well. [4.6.3]
- *SPR# AWAG3UQKXL - Fix Extension Manager calls to NSFDbCreateAndCopy to initialize the NSF subsystem correctly. [4.6.3]
- *SPR# MSAN3WVRUV - Prevent a Unix server hang on shutdown caused by running any API program due to a problem in the Notes SDK. [4.6.3]

API - MAPI

- SPR# DANO3LRRL3 - Allow MAPI clients to use internet mail addressing for recipients not listed in the Public Address Book when Domino is used as a MAPI service provider. [4.6.3,4.5.6,4.5.5a]
- SPR# DANO3MNRY3 - Fix a crash in MAPI clients who use Personal Folders as their default store when attempting to access the Domino Address Book. [4.6.3,4.5.6,4.5.5a]
- SPR# GFLY3X2FNH - Fix a crash of a MAPI client when the Notes MAPI profile specifies an Address Book to be used for checking user names different from the default Address Book. [4.6.3]
- SPR# JHOD3X2MRF - Fix a problem with a Microsoft Outlook inbox failing to display all Notes mail. [4.6.3]
- SPR# PSEO3W7SEN - Fix a problem in which the Address dialog on a MAPI client incorrectly shows entries from the Public Address Book when the Personal Address Book is specified. [4.6.3]
- SPR# PVIA3WKKB - Support long filenames for attachments using a MAPI client. [4.6.3]
Calendar & Scheduling

- **SPR# KMAA3LDAZY** - Correctly unbook the original room and/or time slot when a user manually changes the location and time of an entry in the Resource Reservation database, so that the Freetime database is up-to-date. [4.6.3,4.5.6]
- **SPR# SOUN3WMGTQ** - Prevent warnings from the SchedMgr reporting "Can't find appointment end time," for certain appointment documents, due to missing EndDateTime fields in calendar entries. [4.6.3]
- **"SPR# HHEY3T7Q92"** - Fix the Schedule Manager so that it will not monitor or collect freetime data for users who have a Forwarding Address in the Address Book. [4.6.3]

Client

- **SPR# WTRT3VGC37** - Fix a slow memory leak when using Notes OLE automation (i.e., running a Visual Basic program that accesses Notes objects continually through a loop over a long period of time). [4.6.3,4.6.2a]
- **SPR# DGAU2NUTEX** - Allow the user to Switch Forms when accessing a document via a doclink. [4.6.3,4.5.6]
- **SPR# DROS3L6NQA** - Correctly show completed tasks which were assigned to you as a To Do in the Sent view instead of in the Drafts folder after they are marked completed and notification is sent back to the creator of the task. [4.6.3,4.5.6]
- **SPR# RSNR2WHKHV** - Mask the password in the Call Server dialog box when connecting via Remote LAN Access. [4.6.3,4.5.6]
- **SPR# JCHS3WKHCB** - Prevent the server part of database filenames stored in desktop.dsk from being changed to an incorrect hierarchical server name for non-hierarchical users. [4.6.3,4.6.2a]
- **SPR# MCHT3X2J54** - Prevent a workstation crash caused by attempts to handle an attachment with a very long filename (more than 256 characters on Windows 95 and Windows NT). [4.6.3,4.6.2a,4.5.6]
- **SPR# SVRO3K3SYH** - Truncate auto-generated section field names to a reasonable length in order to prevent various workstation crashes. [4.6.3,4.5.6]
- **SPR# MROE3TRJQR, GSER3U7KJU, JSMH3SVMSN** - Display the correct error message when the user does not have enough access to see any views in a database instead of the incorrect message, "Database is not fully initialized yet..." [4.6.3,4.5.6]
- **SPR# WEVT3VPP9R** - Fix redraw problems in a view opened from the Portfolio database which caused other databases listed in the Portfolio database to disappear or become unable to be selected. Note that as of Release 4.6.3 there are still problems in the Portfolio database on the AIX platform which are under investigation. [4.6.3,4.6.2a]
- **SPR# JCHN3X4FZT** - Prevent access to databases by other clients on a local intranet during and after the use of the Preview in Web Browser feature (which runs the HTTP server locally). [4.6.3,4.6.2a]
- **SPR# HOM3DQMLM** - Fix a problem in the Agent Scheduling user interface to display the Start Time as hh:mm instead of just the hour. There was confusion previously because customers thought hourly agents could only be scheduled on the hour. [4.6.3,4.5.6]
Lotus Notes and Domino 4.6.5 Release Notes

Chapter 6 - History of changes

- SPR# JHN43UU4PM - Handle a mixture of multi-byte and single-byte characters when there are a total of more than 15 bytes in a role name in the ACL dialog. [4.6.3]
- SPR# CHRI3SR2MB - Fix two workstation crashes, one when opening a Help document using a desktop shortcut and then clicking on a doclink, and the other when using the launch URL feature on a document and then returning focus to Notes and pressing Enter. [4.6.3]
- SPR# RSHI3EUVXD - Prevent certain controls (such as the Notes Time/Date controls) in layout regions from disappearing from documents when they are opened via document shortcuts on the Windows 95 and Windows NT desktop. [4.6.3]
- SPR# BLON3UMPRC - Fix a problem when saving OLE objects in a document created with a form with the 'Save Form in Document' attribute, which caused object corruption during a subsequent edit of the document. [4.6.3,4.6.2b]
- SPR# TDEE3VVMXY - Fix a problem with attachments being lost from mail messages when the message is forwarded or when the user does "Reply with history" using webmail. [4.6.3]
- SPR# NPEO3MXHTN - Fix a workstation crash which happens while pressing Cancel in the Create New Folder dialog when accessed through the "Move to Folder" dialog. [4.6.3]
- SPR# CRAO3QRJ6C - Allow access to the LotusScript browser window when switching from Formula programming to LotusScript programming in form design. [4.6.3]
- SPR# MHEG3ZQRDX - Fix a problem with client sessions remaining open on a server inappropriately. This change also fixes a problem with the ReplicateWithServer and ReplicateWithServerExt API calls requiring a full hierarchical name (reporting the error, "Unable to find path to server" when passed only the common name). This problem was introduced in R4.6.2a. [4.6.3,4.6.2b]
- SPR# BUA3JCBML - Prevent the ADMD attribute in a mail recipient name from being removed by the Notes client when a user types an address containing an ADMD attribute with a value of a single space (a valid and, in fact, commonly used value which signifies a wildcard ADMD), then presses F9 or Send. This fix is only applicable when the notes.ini variable, NOTES_NEW_DNPARSE, is set. [4.6.3]
- *SPR# MCON3XZQHZ - Fix a memory overwrite problem when accessing User Activity from the database Properties infobox. [4.6.3]
- *SPR# APAI3TTQ8T - Fix a problem with users being prompted for the password of the ID file specified in the first Location document in the Location list when editing or switching locations if "User ID to switch to:" is specified. [4.6.3]
- *SPR# CDOS3YSS9A - Prevent OLE objects from becoming unusable when edited due to the creation of multiple $FILEs with the same name. [4.6.3]

Client - UNIX only

- SPR# MSAN3WPNQJ - Fix a crash on UNIX when viewing or launching IMAP attachments. [4.6.3]
- *SPR# PVI3XHJZU - Fix a problem which made it impossible to save a reservation in the Room Reservations database on HP-UX. [4.6.3]
IMAP Mail Server

- SPR# LAE3YKHWE - Prevent email addresses from being truncated under certain circumstances by the IMAP server. [4.6.3,4.6.2b]
- *SPR# CJLT3XSU68 - Fix a problem with sending a flag update on message(s) about which one client doesn’t know when two clients access the same mailfile at the same time. [4.6.3]

Install

- SPR# RKAY3M3TKM - Correctly load the Notes Performance Monitor counters when installing the server. [4.6.3,4.5.6]
- SPR# PMGL3RTUUD - Fix a problem with install failing on Windows NT, Windows 95, and Windows NT Alpha systems where there is a version of COMCTL32.DLL in the Windows directory with a date and time of 11/17/97 and 4:28 PM. This DLL is installed by other application programs such as Internet Explorer. [4.6.3,4.6.2b,4.5.6a]
- SPR# BHIR423NF8 - Fix a problem with Uninstall failing for node client installations. This problem was introduced in R4.6.2. [4.6.3,4.6.2b]

Java

- SPR# JGIM3XKLTC - Fix a problem with the inability to upload binary files through Java servlets on the HTTP server. [4.6.3]
- *SPR# PSEO3ZBK8R8 - Provide JAVA servlet support on Windows NT Alpha systems. [4.6.3]

LAN/WAN

- SPR# GSPT3XQQ69 - Allow mail to be sent via the Passthru server specified in the Location document when selecting Send Outgoing Mail from the Replicator page without connecting to the passthru server first. Previously an error, "You are not authorized to use this server: <passthru server name>," would be reported and the mail would not be sent. [4.6.3]
- *SPR# HCUO3YDTAA - Return more informative error codes for SSL errors to a Web user to allow the user to figure out if there is something wrong with the certificate returned by the remote server or if an SSL protocol error occurred. [4.6.3]
- *SPR# DSCT3NJP47 - Provide a password prompt dialog for users when attempting to connect using RAS on Windows NT 4.0 when the password is not supplied in the Connection record. [4.6.3]
- *SPR# GSPT3YVHPC - Fix a crash which occurred when hanging up a RAS connection if the Dial-up Networking entry name included parentheses. [4.6.3]
LDAP Server

- SPR# RPAS3XFQ8X - Use the Internet Domain suffix from a Global Domain server document correctly when constructing email addresses. [4.6.3,4.6.2b]
- SPR# MOBN3UVRT3 - Return complete addresses for users (including the domain) in cascaded Address Books that are included in the Master Address Book, even when there is no Global Domain record with the "Use as default Global Domain" checkbox checked. [4.6.2] In R4.6.2b and R4.6.3, another problem with incomplete addresses being returned for LDAP users in cascaded Address Books is fixed. [4.6.3,4.6.2b]
- *SPR# VDSE3WUPE9 - Fix a memory leak in the LDAP Server when returning X.509 certificates. [4.6.3]
- *SPR# BAKH3Z9QW3 - Fix a problem with LDAP servers being unable to serve up correct e-mail addresses when the Address Book on a server is upgraded to R5. [4.6.3]

LotusScript

- SPR# BWEK3MLKB6 - Correctly save the PostedDate item when using the Send method on a NotesDocument and saving it. [4.6.3,4.5.6]
- SPR# PBIT3UTEJA - Prevent an error when using LotusScript to launch an Excel OLE object with French or German locale set. [4.6.3]
- SPR# DCZI3LXHZB - Fix the optional parameter (MaxSize) to the LotusScript NotesDatabase methods, Create, CreateCopy, and CreateFromTemplate so that it accepts the value 4, specifying the gigabyte limit of the database. This parameter was introduced in R4.6.2 for values of 0 through 4, but the value 4 still didn't work. [4.6.3]
- SPR# ACY3KWC7T - Prevent the incorrect addition of the time and timezone information to a NotesDateTime object set to DateOnly in LotusScript and Java, when adding a day on the day that daylight savings took effect. [4.6.3]
- SPR# NYOA3XXADP, JHYI3YMEQ5 - Fix a crash caused by string manipulation using LotusScript in a multi-byte character environment. [4.6.3]
- *SPR# TGUZ3VY59T - Report correct error messages when using the Replicate method on a NotesDatabase. [4.6.3]
- *SPR# DDUE3SQ5Z4 - Prevent the clipping of the last character off the end of abstracted text when using the Abstract method on a NotesItem in LotusScript and the abstractText method in Java. [4.6.3]
- *SPR# DKEY3Y5R9L - Fix a crash in LotusScript when attempting to open a mail file for a person that doesn't exist in the Address Book. [4.6.3]
LS:DO

- SPR# PJAN3WEJF8 - Fix the ODBC driver to be thread-safe, enabling it to run in a multi-threaded environment. This capability was removed in R4.5.3. [4.6.3]
- SPR# PJAN3W5K4Z - Improve the overall performance of the ODBC driver by avoiding gathering information for every column of every table when using the Qry.SQL method when the information is only used in certain ODBCResultSet methods. [4.6.3]
- SPR# PJAN3ZEKSY - Fix a problem with a hang caused by processing data from table columns that have special, non-alphanumeric characters in the column name. [4.6.3,4.6.2b]

POP3 Mail Server

- SPR# MJUD3WGFUS - Prevent URLs from wrapping in mail messages when retrieved via POP3 (resulting in the wrong URL being accessed). [4.6.3]

Server - UNIX only

- SPR# DAJR3Z3PL6 - Fix a server crash or server hang on AIX which occurs after the error, "MapOSStatusToNTIStatus status = 482," starts to appear on the server console. [4.6.3,4.5.6a]
- SPR# SGOE3WNN6P, KNIL3XRSXB - Prevent two more instances of UNIX and Windows NT Alpha servers crashing and reporting "PANIC: List Entry count in TEXT_LIST is invalid." [4.6.3,4.6.2a,4.5.6]
- SPR# KBRN3YVMVN - Provide a significant increase in performance on Domino servers running AIX. [4.6.2a,4.6.3]

Server

- SPR# SCHN3U2EAB - Fix a problem with the incomplete full-text indexing of attachments. This problem was introduced in R4.5.5 and R4.6.1. [4.6.3,4.6.2a,4.5.6]
- SPR# GFLY3VHPN8 - Fix another problem with certain attachments being only partially indexed. [4.6.3,4.5.6]
- SPR# DWIN3VN57C - Prevent the Admin process from crashing when processing a Delete Person request and choosing to delete the mailfile if the sum total of the characters in the ACL of the Manager entry of the mailfile exceeds 256 characters. [4.6.3,4.5.6]
- SPR# TNIT3XAPBX - Fix a problem with the Router delivering mail to a user whose name is the same as another user in the Address Book instead of reporting the name as ambiguous. [4.6.3,4.6.2b]
- SPR# DAJR3Z3S4B - Prevent a server hang caused by all processes being locked out of the Address Book for extended periods of time while a user's unread marks are being updated. [4.6.3,4.5.6a]
- SPR# SVRO3WLQ3Y - Prevent replication conflicts caused by the update of all field level sequence numbers to the sequence number of the document when a document is added to a given database replica. Field level sequence numbers should only be changed when the field itself changes. [4.6.3,4.5.6]

- SPR# SVRO3WLQA4 - Prevent replication conflicts caused by incrementing field level sequence numbers incorrectly during a replication conflict merge. [4.6.3,4.5.6a]

- SPR# LSR3Q8M6R - Map informational messages that indicate what the Notes performance monitor is doing in order to avoid the error message, "The description for Event ID (#) in Source n could not be found." [4.6.3]

- SPR# SVRO3Z8QTH - Prevent notes from having a Created time in the future if they are created on a server during and immediately after the Compact program runs. [4.6.3]

- SPR# PNGG3V9PY4 - Prevent the possibility of a server task crashing during server shutdown with a message saying, "PANIC: Object handle is invalid." [4.6.3,4.5.6]

- SPR# NWAS3QS3M3G - Prevent the Notes workstation and Domino server from hanging when deleting more than 64,000 documents from a view. Both the client and the server must be upgraded for this fix to work. [4.6.3]

- SPR# HHEY3WFLNHY - Allow document and database links to fail over appropriately when a clustered server is busy. [4.6.3]

- SPR# MSAN3VTLWQ - Prevent a server crash caused by folder corruption in databases. [4.6.3,4.6.2b]

- SPR# JPAI3Y4VS - Improve the performance of the cluster replicator under certain error conditions when one of the cluster members goes down. [4.6.3]

- SPR# SCHW3QKAV9 - Add a parameter to Compact (-i) so that it will ignore errors and continue compacting a damaged database. Please note that this parameter should be used only in extreme conditions, since its use will result in data loss. [4.6.3]

- SPR# PHAD3XYJK - Enforce the 40-day grace period for the use of an old user name after AdminP is used to rename a user. [4.6.3]

- SPR# CWAR3W6NNE - Fix a problem with the MAILDISABLEPRIO notes.ini parameter being ignored after compacting the mail.box during daily router housekeeping chores (causing low priority mail to fail to route). [4.6.3]

- SPR# SNLU3UQA8W - Allow the filename argument to be anywhere in the command line for Updall. The first argument without a leading dash ("-") will be taken as a filename and any subsequent arguments without a leading dash will be ignored. [4.6.3]

- SPR# TBOD3WUGP3 - Fix a problem which caused database names to be garbled in the Cluster Directory database (and subsequent crashes of the cluster replicator). [4.6.3]

- SPR# VAZ3SXD8R - Fix a routing loop with continuous message creations and deletions occurring in mail.box (but no delivery of the item) that occurs when the recipient is a group whose name includes a space but is entered using an underscore in place of the space. [4.6.3]

- SPR# CPEN3YUKW9 - Fix a crash in a Domino process which results from the reuse of data in a memory block previously assigned to another Domino process that failed to terminate correctly. Investigations to this point have found several third-party Notes API programs which produce this problem; we are working with the vendors to address the issue. The crash is most often seen in Chronos, but only because that is the Domino process which starts up most often; it will happen in any process which starts up with the "stale" data. This fix will cause the process which crashed in R4.6.2 to hang as it did in all releases prior to R4.6.2. We are still working on a more satisfactory fix for a future release of Domino. [4.6.3,4.6.2b]
- SPR# SVRO425S42 - Fix a potential server performance problem when clients are opening the Address Book and unread marks are being updated. [4.6.3,4.5.6a,4.6.2b]
- SPR# PCOL3ZUETU - Fix a problem with unscheduled replication taking place after changes are made to the Address Book. Previously, the last successful replication time was not being carried forward when the server schedule was rebuilt. This problem was introduced in R4.6.2. [4.6.3,4.6.2b]
- SPR# KNIL426RYA - Fix a problem with users receiving the error, "Server error: Insufficient memory," from servers with slow disks. [4.6.3,4.6.2b]
- SPR# RMAS3XRMS5S - A simple F9 view refresh now correctly removes a copy-pasted document from a categorized view (once that document is deleted). Previously when pasting a document in a categorized view while a category was selected, if that document was subsequently deleted, the view display was not updated until a full view rebuild was performed. [4.6.3]
- SPR# DWIN3XGVR9 - Allow the server administrator to specify whether empty response documents should be posted for Rename and Delete in ACL, Rename and Delete in Readers and Authors Fields, and Get Information for Mail File Deletion requests in the Administration database. Please note that, if clustering is set in a Server document, that document must be resaved using the new Address Book design; otherwise, this new capability will be the default. [4.6.3]
- *SPR# DWIN3YKMNX - Prevent the Admin process from crashing when checking a Reader/Author text field if the contents of the field exceed 256 characters. [4.6.3]
- *SPR# TBOT3YRNYF - Fix a problem which caused agents triggered by New or Modified Documents to stop executing (after the server was running for several days) until the Agent Manager was restarted. [4.6.3]
- *SPR# JPIU3UHEQV - Fix a problem with Event Monitors not working on Windows 95. [4.6.3]
- *SPR# JHOD3X3TWQ - Fix a problem in which folders and views with the same name were not allowed to coexist when the Design task ran causing the view to be deleted. One particular example of this problem was in a mailfile, when a user named a folder "Calendar," the Design task would delete the "($Calendar)" view. [4.6.3]
- *SPR# DWIN3Z3RWX - Fix a problem with the Admin Process not updating database ACLs while performing a "Rename Person in ACL" request. [4.6.3]
- *SPR# RGET3UFVCW - Fix a problem that would cause the Domino server to crash when a third-party executable crashed and QNC was invoked. [4.6.3]
- *SPR# SVRO425TES - Allow other processes more CPU time when views are being updated to improve overall server performance. [4.6.3]
- *SPR# DCZI3NCSR4 - Prevent the seeming damage of views by users attempting to perform actions for which they are not authorized. For instance, if a database Author attempted to delete a view, other users in the same view would get error messages even though the Author was told s/he was not allowed to delete the view. No damage was actually done to the view, but the error messages would force the other users to re-open or rebuild the view before continuing. [4.6.3]
- *SPR# MSAN3ZBRTY - Fix a crash in ProcessOperator when updating views in mailfiles. [4.6.3]
**SMTP MTA**

- SPR# CWAH3UDLN3, BROE3Z8KE9 - The ability to send and receive the Euro currency symbol over the Internet has been added to the SMTP MTA in Domino 4.6.3. This support is enabled by adding the following line to the notes.ini: SMTPMTA_SUPPORT_EURO=1.
  
  Note: Refer to the Notes and Domino Release Notes topic "Support for Euro currency symbol added to SMTP MTA in Release 4.6.3" for details about the behavior of this variable, by platform. [4.6.3]

- SPR# ALAE3WRSWQ, KWAE3WN7MG - Provides a new notes.ini variable, SMTPMTA_NO_INLINE_CONTENT_DISP=1, to disable setting the content disposition headers for outbound messages. The MTA began setting these headers in R4.6.1. [4.6.3,4.6.2a]

- SPR# LCAL3WWMQ3 - Fix a problem with the leading quote being stripped from SMTP addresses when using the NOTES_NEW_DNPARSE notes.ini variable; this was introduced in R4.6.2 addressing issues with X.400 and SMTP addresses containing plus signs. [4.6.3,4.6.2a]

- SPR# ALAE3VHMC2 - Prevent an SMTP MTA crash when receiving inbound mail that is larger than the configured Notes.ini variable, "ESMTPMaxInbMsgSize". To configure the maximum inbound message size which the SMTP MTA transport will accept, add the following variable to the Notes.ini:

  ESMTPMaxInbMsgSize=nn

  ...where the value nn is the number of bytes in kilobyte increments. Please note that this value is an approximation since it includes the overhead of protocol headers. When messages greater than the configured maximum are rejected, the SMTP MTA will now log the following message: "SMTPMTA: isesctl inbound SMTP session failed". [4.6.3]

- SPR# RSIN3PDJZJ - Prevent conversion failure of inbound multipart/reports by SMTP MTA which were generating Non-Delivery Reports to the originator. [4.6.3]

- SPR# TPEL3VSFRP - Prevent SMTP MTA crash on inbound mail message containing an XMac file attachment with no name. [4.6.3]

- SPR# MCHT3UPQD3 - Prevent SMTP MTA from rejecting inbound mail with non-delivery report if Base64 decoding of one body part fails due to excess pad characters. Instead, SMTP MTA will now put the undecoded part into the message body (non-MIME) or a file attachment (MIME) for the recipient to handle when a MIME Decoding error occurs. [4.6.3]

- SPR# DRAY3U8DU8 - The Administrator who installed Notes has been added to the MTAFORMS.NSF ACL with MANAGER ACCESS to be consistent with other SMTP MTA databases such as smtpibwq.nsf, smtppbwq.nsf, and smtp.box. [4.6.3]

- SPR# MCHT3UPMB9 - Prevent SMTP MTA from generating a Non delivery report for one failed recipient which indicates all recipients' deliveries failed. [4.6.3]

- SPR# TYOA3RUABV - Correct SMTP MTA so it allows Special mail option of "base64" attachment encoding to override configured attachment encoding of "uuencode" and "Simple text only mail users". [4.6.3]

- SPR# BEL3XFJCV, MCHT3U3NAN - Correct SMTP MTA Internet address domain suffix in from: address when using special options to send to another Notes user over the Internet. [4.6.2]

- SPR# GHKM3JV4W7 - Prevent the SMTP MTA from disregarding characters in the subject after CR-LF (Carriage Return-Line Feed) while processing outbound mail to the Internet. SMTP MTA now replaces NULL characters with space, since it is illegal to put CR-LF in RFC 822 headers (except for folding lines). [4.6.3]
- SPR# BRAR3K3TV2 - Prevent SMTP MTA from dropping comments from addresses in inbound mail when the comment is positioned between the local portion and the domain (e.g. "John_Smith (comment)@lotus.com"). [4.6.3]

- SPR# LMIL3SNQSD - Prevent SMTP MTA from hanging when processing a corrupted inbound message from the Internet. [4.6.3]

- SPR# ALAE3YNPWT - Prevent SMTP MTA outbound message converter from sometimes crashing after the scheduled configuration "refresh" which occurs after scheduled housekeeping compaction. [4.6.3]

- SPR# LMIL3GESYT, LMIL3S8MUU - Prevent SMTP MTA from assigning a Notes Delegate user as 'from:' sender and generating a blank 'sent by:' sender in the SMTP headers of mail sent to the Internet by Notes Delegate users. To initiate this mail delegation handling requires configuration of a new Notes.ini variable, "SMTPMTA_AVOID_DELEGATE_PROBLEM=1". [4.6.3]

- SPR# WVMN3WTL83, WVMN3WTTSG - A notes.ini variable, "SMTPMTA_DATA_TIMEOUT", expressed in minute increments, has been added to configure the SMTP MTA ‘End of body period’ timeout in order to adjust to other SMTP hosts which are slow in responding and to avoid unnecessary resending of messages. In the absence of the notes.ini variable, the default End of body timeout is 10 minutes. [4.6.3]

- SPR# KGEW3LASNG - Add new file types supported by INSO 511 and some new IANA registered file type/subtypes (including Framemaker) to SMTPTBLS.nsf so the appropriate file extension is applied when processing Internet mail. [4.6.3]

- SPR# IGJR3W2RUR - Prevent SMTP MTA imsgcnv.exe crash and Domino Server shut down when processing received mail containing 146 nested Message/rfc-822 parts. [4.6.3]

- SPR# BRAR3UTJUU - Prevent SMTP MTA conversion failure processing outbound mail containing quoted from: or cc: addresses. [4.6.3]

- SPR# MCHT3NJP4V - Change SMTP MTA to process messages in inbound workqueue in FIFO (First In, First Out) order to prevent delayed delivery of older messages. [4.6.3]

- SPR# MCHT3YSMWH - Correct SMTP MTA so it is generating delivery confirmations and full path traces when requested. [4.6.3]

- SPR# ALAE3UMP4U - Default line length has been increased to 80 characters for outbound SMTP MTA messages. [4.6.3]

- SPR# SRAO3XBL3U - Fix a build problem in the North American Domino server which prevented the inbound transport of SMTP MTA from working on HP-UX version 11.0. [4.6.3,4.6.2a]

- SPR# SRED3VSL9M - Prevent SMTP MTA from processing a Notes hierarchical (canonical) name containing a Notes domain containing a period as an Internet address in outbound mail to the Internet. [4.6.3]

- SPR# LBIG3XPMZV - Prevent failure of SMTP MTA replies to X.400 addresses due to underscores in the X.400 name. [4.6.3]

- SPR# BRAR3Z9M88 - Prevent R4.6.3 SMTP MTA from generating an unreplyable From: address in inbound mail because it does not quote the address when the sender's address local part contains a + sign. [4.6.3]
SPR# ALAE3UUQ85 - A feature has been provided to configure the page length of outbound mail for unjustified text. To utilize this feature, include the following notes.ini variable where the value is the number of characters before a page break:

SMTPMTA_OUTBOUND_PAGE_LENGTH=[1-998]

Please note:
a. If this variable is not specified, the value specified, or defaulted, for SMTPMTA_OUTBOUND_LINE_LENGTH will be used.
b. If a value greater than 998 is specified, the value specified, or defaulted, for SMTPMTA_OUTBOUND_LINE_LENGTH will be used.

The default value for outbound line length ("SMTPMTA_OUTBOUND_LINE_LENGTH") is 80 characters. If the "SMTPMTA_OUTBOUND_LINE_LENGTH" variable is not present the default line length is 80 characters. Note that "SMTPMTA_OUTBOUND_LINE_LENGTH" variable must be configured to be greater than or equal to 80 to prevent the occurrence of the CVS Invalid Data Error when processing outbound mail. [4.6.3]

SPR# ALAE3UMP4U - SMTP MTA default line length for outbound mail has been increased from 75 to 80 characters. To override the default, the following variable may be included in the Notes.ini file:

SMTPMTA_OUTBOUND_LINE_LENGTH=nn
...where nn is the number of characters before a line break - for example, SMTPMTA_OUTBOUND_LINE_LENGTH=75. [4.6.3]

SPR# RPEN3UDNAA, RCHR3B5HG4 - Prevent SMTP MTA from inserting line breaks in long lines in email which prevent URLs from functioning. To deactivate this functionality use the notes.ini variable "SMTPMTA_OCH_WRAP_LONG_WORDS=1" [4.6.3]

SPR# RDAL3P6QAN - The SMTP MTA has been corrected so it no longer processes inbound addresses with a period as separator even though underscore is configured as the domain separator when Internet lookup on shortname fields is enabled. To activate this processing you must add one of the following variables to the notes.ini file:

SMTP_EXACT_MATCH_ALL=1
or
SMTP_EXACT_MATCH_LOCALPART=1
When the notes.ini variable SMTP_EXACT_MATCH_ALL is set, the entire name (in the form of local@domain) without any variation is referenced during lookup process. When the notes.ini variable SMTP_EXACT_MATCH_LOCALPART is set, only the local part of the recipient’s name without any variation is referenced during the lookup process. [4.6.3]

SPR# JPEY3ULRHW - Prevent SMTP MTA from returning "Log format string = 501 Bad Parameter" protocol response to the sending SMTP host when it receives a message size parameter and an address containing a blank. [4.6.3]

SPR# MCHT3WEKCC - Alters the SMTP MTA so it makes use of MX records in secondary DNS on Windows NT server if the primary DNS is down. [4.6.3]

SPR# MCHT3VPFR - Correct SMTP MTA MIME subtype for Microsoft Excel charts which was misspelled in SMTPTBLS.NSF (the database used to map file extensions to MIME subtypes for Internet mail processing). [4.6.3]

SPR# CMOS3UWKCX - Change R4.6.2 SMTP MTA extension for Microsoft Word documents in SMTPTBLS.NSF from "unknown" to "doc". The SMTPTBLS.NSF database is used by SMTP MTA for mapping MIME types/subtypes to/from file extensions when processing Internet mail [4.6.3]
- SPR# RSIN3T49PN - Removes the arbitrary limit on the number of Notes domains and internet suffixes configured in the Global Domain document and used by SMTP MTA to limit Internet mail. The actual number of domains and suffixes that are supported is limited by the amount of Notes memory and other system resources. There is a 64K limit in the Domino Public Address Book design for the Global Domain Members and Internet Domain Suffixes fields which may prevent extremely long lists of Notes domains or Internet domain suffixes from being entered and saved in the Address Book. To verify that Notes Domain Members and Internet Domain Suffixes have been saved in the Public Address Book, from the Notes Server console issue the command "tell smtpmta sho config" to see the list of Notes Domain Members and Internet Domain Suffixes. [4.6.3]

- SPR# MCHT3PCMSD - Prevent the SMTP MTA from generating an empty cc: address when it can not convert the cc: recipient’s address in outbound mail. [4.6.3]

- SPR# PBLD3UMJ5D, MCHT3LAHUH - Prevent SMTP MTA from quoting names with underscores in the local part of SMTP addresses in outbound mail through the use of the notes.ini variable, "SMTP_AVOID_LOCAL_QUOTES=1"; also avoid identifying Notes domains with dots (eg "ABC S.A.") in header addresses as if they were Internet domain names. [4.6.3]

- SPR# MCHT3WNHDM - Allow SMTP MTA to route mail between local Notes users with Internet addresses (in loopback mode) if it is configured in DNS with an MX record. [4.6.3]

- SPR# CMOS3WFQGA - Correct design of encapsulated mail, encap2.ond attachment, (sent to another Notes user over the Internet) which was missing some design elements required to allow it to be viewed from non-Notes mail client by invoking Notes. [4.6.3]

- SPR# SYOA3LUANF - Correct Content-transfer-encoding field in header generated by SMTP MTA on sent mail to be Quoted-Printable when a text message is sent if the Language parameter in the Server document is invalidly configured to Uuencode the message body. [4.6.3]

- SPR# SRED3XHMRV - Prevent SMTP MTA outbound message converter crash when processing message with large 100MB attachment. [4.6.3]

- SPR# TNIIT3W8RJC - Prevent SMTP MTA from appending extraneous Internet domain suffix to recipient's address when there is space on right of '@' in address of outbound mail to Internet. [4.6.3]

- SPR# BEL3XFKDB - Change SMTP MTA to format sender name according to the Global Domain configuration when the sender selects special options while creating a memo and then selects the "sending this note to another notes mail user via the internet" check box. [4.6.3]

- SPR# BEL3TCDSG - Change the SMTP MTA error messages to provide useful information for end users when the mail originator is syntactically invalid. [4.6.3]

Template - Combined mailfile

- SPR# JCAN3PLKFX - Fix a problem which previously prevented the Calendar Profile feature, "Only the following users can read my Freetime Schedule," from working for web mail users.[4.6.3]

- SPR# DSMH3RN4JR - Fixes error when moving certain documents to the trash from web mail.[4.6.3]
Template - Discussion

- SPR# MLTI3W7ELS - Fix a display problem in the By Author view which previously caused responses to appear under the wrong parent. [4.6.3]
- SPR# CDUY2U4N3A - Fix the Periodic Archive agent to check for inaccessible documents protected by a Readers Names field and skip them (instead of aborting the agent). [4.6.3]

Template - Mailfile

- SPR# JHOD3H9MNT - Fix a problem with the SENDTO field being truncated after 256 characters when re-sending a delivery failure. Now all users will be included. [4.6.3,4.5.6]
- SPR# RJAN3WCMC2, KWHR3R6MQN - Correctly update the $BusyName item in a Calendar entry when it is cut and pasted from one person's Calendar to another. [4.6.3,4.5.6]
- SPR# MZET3QGMDY - Prevent the Autoprocessing agent for Calendar entries from processing signed messages, since otherwise the signature of the message would no longer match and the users would receive error messages. [4.6.3,4.5.6]
- SPR# MALZ3UETV5 - Update the user's Freetime Schedule correctly when changing an existing Appointment to a Reminder. [4.6.3]
- SPR# JKEY3SXSF6 - Fix a problem with the "Not for public viewing" option not propagating to repeating documents after editing the field. [4.6.3]
- SPR# MHAC3QGR4Q - Fix a problem with being unable to create a monthly repeating entry for anything other than "every month." [4.6.3]
- *SPR# OLR3X2TK7 - Fix a problem causing the workstation to hang when moving a repeating calendar entry that occurred on the same date every month to a Friday if the date occurred on a weekend. [4.6.3]

Template - Personal Address Book

- SPR# AASD3QK4Y6 - Renamed the time zones in the Location record of the Personal Address Book and in the Server record of the Public Address Book so that GMT-9 is labeled Alaska and GMT-10 is labeled Hawaii. This reverts the change made in R4.6.2. [4.6.3,4.6.2b]
- *SPR# NSHS3ZJNGX - Allow the sending of encrypted mail correctly from the workstation by correctly storing hierarchical names in the Full user name field in a Business Card in the Personal Address Book. [4.6.3]
- *SPR# MOBN3ZUVDG - Fix a problem with names including middle initials being garbled when saved in a Business Card in the Personal Address Book. [4.6.3]
Template - Resource Reservations

- SPR# JCRE3FDFPN - Fix a problem with the incorrect handling of the time separator in date fields when it is a "." as it is for OS/2 in Europe. [4.6.3,4.5.6]
- SPR# SKKY3PKM7Q - Allow calendar managers to modify reservation documents in the Reservations database that are automatically reserved via the agent. [4.6.3,4.5.5]
- SPR# EFID3U6N7P - Fix the views in the Resource Reservations database to show the accurate time that resources are reserved so that the information coincides with the information in the Freetime database. [4.6.3,4.5.6]

Template - Web Administration

- SPR# TGUZ3XHSGH - Fix a problem introduced in R4.6.2 which previously caused Web administration using a browser to fail with the error, "Document has been deleted," after replacing the design of the Web Administration database with the new template. [4.6.3,4.6.2a]

Template - Web mailfile

- SPR# KICA3WTA5Q - Fix a problem causing the inability to scroll to the end in folders whose names contain multi-byte characters. [4.6.3]
- *SPR# DJOS3XJT82 - Allow Webmail users to Forward and Reply with History to memos received from the internet which use the default form. [4.6.3]
- *SPR# DJOS3XJTRJ - Fix the memo header for internet messages to indicate the sender of the message instead of the recipient. [4.6.3]

Templates

- SPR# RJAN3WCLSH - Provide compatibility with R5 for repeating meetings in all of the mail templates, and in the Resources Reservations template. [4.6.3]

Web Navigator

- SPR# HCUO3XFQ7E - Allow secure connections to the new release of Netscape server, version number 3.0F. [4.6.3,4.6.2a]
Web Server

- SPR# DANS3UWK2C - See description of this new feature under the section entitled, "Domino Certificate Authority support for S/MIME." [4.6.3]
- SPR# RCHR3ELOQ9A - Correctly save the data for keyword fields when the following three conditions are all true:
  1. Database is not JavaScript enabled;
  2. Keyword field is shown as checkboxes or radio buttons; and
  3. All the checkboxes or radio buttons are unchecked by the user when the document is submitted. [4.6.3]
- SPR# PHAN3W5BHC - Add support for the Euro currency symbol to the HTTP server by adding support for codepage Windows-1252. The MS Sans Serif font on Windows 95 is mapped to Helv and does not support this character, however. [4.6.3]
- SPR# RGET3JLRGJ - Prevent all data from disappearing from a document after a field fails its validation formula when using a Netscape browser. [4.6.3]
- SPR# DRX3RCMS4 - Generate an HTML anchor for @DbCommand("Domino"; "ViewNextPage" or "ViewPreviousPage") even when there are no documents in the view. [4.6.3]
- SPR# JCOS3WWNDX - Fix a problem in which paragraphs with "Hide paragraph if formula is true" selected were being hidden when they should not have been on the HTTP server. [4.6.3]
- *SPR# RGUR3XRSMV - Prevent a crash in the HTTP server when the year reaches 2038. [4.6.3]
- *SPR# VWIR3WFAL6 - Fixed a crash in the HTTP Server when trying to open a database which has a Notes V1 icon. [4.6.3]
- *SPR# MKEN3YZNX5 - Fix a memory leak in the HTTP server when processing Notes urls that send redirections back to the browser. [4.6.3]
- *SPR# RCON3YFQAZ - Fix a problem with Server-Side Include (SSI) files returning incorrect Last-Modified info and, therefore, being cached improperly by the web client or proxy server. [4.6.3]
4.6.3a Quarterly Maintenance Update (QMU)

Final Fix List

Release 4.6.3a Quarterly Maintenance Update (QMU)

Domino Enterprise Connect Services

- SPR# BOD43EQHG - Fix a problem resulting in server threads hanging when there is heavy user volume in a database which has been enabled with Domino Enterprise Connection Services.

IMAP

- SPR# TPEL3ZANB6 - Fix a problem with certain folder operations when using the IMAP Mail Server which would cause 100% CPU usage and the failure of other Domino server tasks. This fix also provides a workaround for a problem in Eudora Pro 4.0 (fixed in Eudora Pro 4.1) which caused a Create Folder operation to fail.
- SPR# WLJG43WJAC - Fix a problem introduced in R4.6.2 which caused the IMAP Server to hang or crash when attempting to access an empty mailfile.

LotusScript

- SPR# BLUU3Z8QUK - Fix a memory leak which occurred when a LotusScript agent called a method and omitted an optional string parameter.

Server

- SPR# MSAN42KQEQ - Fix a server crash caused by the change in R4.6.2 (and in R4.5.6) to allow databases to be opened even if the Database Quota has been reached. The crash only occurs under certain error conditions.

SMTP MTA

- SPR# MMFD42USKB - Prevent an SMTP MTA outbound message converter crash processing mail to internet with more than 10 illegal recipients. This problem was introduced in R4.6.3.
- SPR# RPAN43MFH8 - Correct R4.63 SMTP MTA so it honors the "internet mail" configuration option for "Internet Message Storage" field in the Person document when an internet address is also configured in the short name field of the person document and Internet Address Look up is enabled for SMTP MTA. A side effect of the correction for SPR # RPAN43MFH8 is the disabling of the correction of SMTP MTA SPR# TNIT3XAMXN included in Domino 4.63. The fix for SPR # TNIT3XAMXN prevented SMTP MTA from converting a unique Internet Address to an ambiguous Notes recipient address by adding the Notes domain to address before forwarding to Notes router for delivery. To re-enable the correction for SPR TNIT3XAMXN when using Domino 4.63a, you must add the following variable to the Notes.ini file of the SMTP MTA server: "SMTPMTA_ADDINBDOMAIN = 1". When the fix for SPR # TNIT3XAMXN is enabled in Domino 4.63a, the fix for SPR #RPAN43MFH8 is disabled in 4.63a.
Template - Document Library

- SPR# MGAR423SWT - Fix a date display problem with document review tasks in the To Do View of a mail database when the item originates from a document library.

Template - Web Mail

- SPR# MHEL35JEG4 - Fix a problem introduced in R4.6.2 which limited the number of characters that could be added using the Address dialog.

Web Server

- SPR# SNLU3Z3AZ6 - Provide the same logging information in the Domino Text Log files as is provided in the Domino Web Server Log database.

Client, Designer, Server

4.6.3b Quarterly Maintenance Update (QMU)

Final Fix List - R4.6.3b QMU fixes

Overall Notes:

- R4.6.3b will be a required minimum for cluster replication with R5 Domino servers.
- There are fixes in the area of Template - Mail File that provide upward compatibility to Release 5 (R5) of Notes and Domino.

Administration

- SPR#JMCA43GBVG - Enhances the change for SSHE3P5SXT (in R4.6.2) that allowed system administrators with only Author access to the Address Book to modify certain fields in the Person record that were previously restricted to Editors or above. With this latest change, the fields in the Person document of newly registered users are set according to the Person document form instead of being protected automatically. As before, this capability involves changing the design of the Address Book and is not recommended.
API

- SPR# AKLS43DJCV - Fixes a problem where a successful update/updall process returns -1 (failure) instead of 0 (success). As a result, automated scripts that check this status did not continue.
- SPR# VROZ3YKJYA - Fixes a problem that prevents deleted documents from being removed from folders (via the API or LotusScript). This problem was introduced in R4.6.2. A partial fix was in R4.6.3 and a further fix was added in R4.6.3b to remove deleted response documents from folders as well.
- SPR# MDOR43DLYN - Fixes a crash in an API program using NSFNoteExtractFileExt, which is trying to extract a file attachment from a document when another server process deletes the document.

Client

- SPR# MGAN43TUDX - Prevents the display of an error, "Formula is hidden," when opening databases with hidden designs.
- SPR# JHOD3RJRG6 - Implements a new NOTES.INI variable, CLIENT_NAME_LOOKUP_NOUPDATE, which allows you to access the type-ahead feature while the indexer is updating the local Address Book after replication. Any new usernames will not be accessible until the indexer finishes.
- SPR# PMOL3X9QUY, JSTH432PGK, JSTH432PGK - Fixes a problem introduced in R4.6.2 that resulted in pasted columns displaying the value of the formula from the copied column even after the formula changed. This problem was a result of the Programmatic Name being copied as well. The fix prevents the pasted column from having the same Programmatic Name as any other column in the view (assuming the name was automatically generated) in order to insure the recalculation of the formula.

IMAP

- SPR# CMAS44HJXA - Fixes a problem with the truncation of user addresses containing multiple domains in the From field for IMAP clients, which prevented you from replying to a mail message.

Install

- SPR# MCLK3UVGY5 - Fixes a problem with Node installs requiring that you have write access to the fileserver from which you install; now only read access is required. This problem was previously fixed in R4.6.2.
LotusScript

- SPR# VMAA3SGUEK - Correctly checks the types of database access allowed by the your Execution Control List for the NotesACLEntry methods on a NotesACL when accessing the ACL instead of only on save.

Server

- SPR# DBOG439QPU - Fixes a problem with the nightly router compact of mail.box resetting the maximum size to 1 gigabyte instead of maintaining the size it was when it was created.
- SPR# SALR3Y8NZH - Fixes a problem with profile documents not being replicated via the cluster replicator.

Server - Unix only

- SPR# MSAN3WWN48 - Prevents intermittent hangs in the HTTP server and Domino server on UNIX. This problem was previously fixed in R4.6.2 (JJAN3UUMFN) and inadvertently omitted from R4.6.3.

Template - Mail File

- SPR# FGRN3YFSN3 - Fixes a problem with receiving an erroneous error message (Object variable not set) when receiving a reschedule notice for a repeating meeting from an R5 user without having first accepted the parent.
- SPR# FGRN3ZJQCT - Corrects a problem with the first instance of a repeating meeting not saving a date and time when an R5 users proposes a new date and time.

Template - Web mailfile

- SPR# FGRN3WPHWF, FGRN3ZJQCT, FGRN3Z8HSR - Replaces the RSVP button with the Accept button on Calendar entries for repeating meetings received by Web users from R5 users. When using the RSVP button (which is invalid for Web users), the error, "Original invitation document not found (wNoticeOpen)," displayed.

Template - Public Address Book

- SPR# HEM3MACM2 - Allows administrators with the [GroupModifier] role to access the Server\Deny Access Groups view.
Notes and Domino 4.6.4 New Features and Enhancements

New Features expanding Domino Enterprise Integration capabilities:
Beginning in Domino and Notes Release 4.6.4, Lotus has added LotusScript Extension support for DB2. The DB2 LotusScript Extension (DB2 LSX plug-in) provides native access to DB2 through the DB2 CLI Interface. Based on the LotusScript Data Object, the DB2 LSX is a set of three classes that access DB2 data as well as expose DB2 extended functionality (such as support for DB2 user defined types and DB2 large objects). For more information see the "Things you need to know" chapter in these Release Notes.

Updated Inso viewers for Microsoft Windows, IBM AIX and Sun Solaris (Sparc and Intel)
Release 4.6.4 uses the latest viewer technology (version 5.2.1) from Inso Corporation for Microsoft Windows and IBM AIX. Enhancements include a Lotus 1-2-3 R9 viewer for Windows. The new version of the viewers contains many improvements and provides some critical fixes. See the "Viewers" section in the Things You Need to Know chapter of the Release Notes for details.

SMTP MTA
The Release 4.6.4 SMTP MTA supports two new NOTES.INI variables.
SMTPMTA_ALLOW_KNOWN_DOMAINS is a new variable which activates an enhanced relay limitation mechanism that provides for configuration of domains for which relay is allowed. In addition, the new variable SMTPMTA_NO_BP_SEPARATOR is used to turn off the generation of body part markers (black lines) in inbound mail. For more information about these new variables, see the "Additional New Features" section in the Things you need to know chapter in the Release Notes.

Notes and Domino Release 4.6.4

Notes and Domino QMR 4.6.4 - Final Fix List (as of 4/23/99)

Below is the second and final update of the fix list for Notes/Domino Release 4.6.4. It is based upon the original fix list posted on 3/30/99 with more enhancements added. New additions to the list on 4/23/99 are denoted by an asterisk (*) before the SPR number. For example, "SPR# JHUO42BVFB was added to the list on 4/23/99. In addition to the fix list, the Release Notes for R4.6.4 will be updated and can be obtained from the following web page: http://www.notes.net/notesua.nsf. Please note that this list and the Release Notes found on the web are more current than the printed release notes and the on-line release notes found on the CD.

It should be noted that all the fixes listed, including the new additions to this list, are already in the R4.6.4 code. However, due to the large number of fixes to the R4.6.4 product, it has taken some time to compile the list. We appreciate your patience.

You will find in the list below, as well as the release notes, new information is now being included along with each SPR number and fix description. This new bracketed information indicates in which version the enhancement was first introduced. If the enhancement was first addressed in a Quarterly Maintenance Update (QMU), that will be specified, as well as the first scheduled Quarterly Maintenance Release (QMR) in which the enhancement was included. For example, a description specifying [4.6.2, 4.6.1a, 4.5.5] indicates the same issue affected both the 4.6x and 4.5x code streams and was subsequently corrected in both. Specifically in this example, the issue was first addressed in the 4.6.1a QMU of the 4.6x line and QMR 4.5.5 of the 4.5x line. It was also then corrected in the 4.6.2 QMR. Of course, once included, the enhancements carry forward into the subsequent maintenance releases of the same code stream and to new feature releases.
Note: There are fixes in the areas of Template - Mailfile and Template - Web Mailfile that provide upward compatibility to Release 5 (R5) of Notes and Domino.

API
- SPR# AKLS43DJCV - Fix a problem where a successful update/updall process returns -1 (failure) instead of 0 (success). As a result, automated scripts that check this status failed to continue. [4.6.4,4.6.3b,4.5.7a]
- SPR# VROZ3YKJYA - Fix a problem which prevented deleted documents from being removed from folders (via the API or LotusScript). This problem was introduced in R4.6.2. A further fix was added to remove deleted response documents from folders as well. [4.6.4,4.6.3b]
- SPR# CBMO3YUK59 - Fix a server hang (seen most often on UNIX servers) due to a semaphore deadlock encountered when using an API program to register many users. [4.6.4]
- SPR# CBMO3ZRVHT - Fix a memory leak in NSFDbSetUnreadNoteTable. [4.6.4]
- SPR# MDOR43DLYN - Fix a crash in an API program using NSFNoteExtractFileExt, which is trying to extract a file attachment from a document, when another server process deletes the document. [4.6.4,4.6.3b]
- SPR# MYUA45CSA7 - Provide a new API routine, NSFBuildNamesList, for the Windows NT and Windows 95 platforms. The necessary files (nsfdb.h and the \lib\mswin32 directory) will be posted to the Lotus Developer Central Website as a "patch kit" soon after R4.6.4 ships and users will be instructed to apply this "patch" over the 4.6.2 C API Toolkit. [4.6.4]

Calendar and Scheduling
- SPR# KPEY3PFN6L - Provide the capability for freetime lookup to access groups with alias names. [4.6.4,4.5.7]

Client
- SPR# CRAO3NHHM67 - Prevent all documents from being marked as read when only marking one document as read after an automatic logoff (or the use of the F5 key to logoff). [4.6.4,4.5.7]
- SPR# PMNY3NBECWC - Cross through each line of a multi-line calendar entry when deleting it. [4.6.4,4.5.7]
- SPR# CRAO3NZR7P - Fix a severe performance degradation when a database has been set up to use the Preview pane on the right side of the screen. [4.6.4,4.5.7]
- SPR# RSCZ3CHMSK - Fix incorrect behavior of computed for display fields with hide-when formulas. [4.6.4,4.5.7]
- SPR# MGAN43TUDX - Prevent the display of an error, "Formula is hidden," when opening databases with hidden designs. [4.6.4]
- SPR# PMOL3X9QUY, JSTH432PGK - Fix a problem which was introduced in R4.6.2 which resulted in pasted columns displaying the value of the formula from the copied column even after the formula was changed. This problem was a result of the Programmatic Name being copied as well. The fix prevents the pasted column from having the same Programmatic Name as any other column in the view (assuming the name was automatically generated) in order to insure the recalculcation of the formula. [4.6.4, 4.6.3b]
- SPR# JHOD3RJRG6 - Implemented a new notes.ini variable, CLIENT_NAME_LOOKUP_NOUPDATE, which allows users to access the type-ahead feature while the indexer is updating the local Address Book after replication. Any new usernames will not be accessible until the indexer has finished. [4.6.4,4.6.3b]
- SPR# VLN3CAHVQ, HCUS3YEKCY - Fix various problems (including a crash) caused by a user with a compound name, e.g., a name with a hyphen, using Named Styles. [4.6.4,4.5.7]
- SPR# VLN3NHDF9 - Fix a problem with a Return Receipt being sent when a mail delegate reads a memo. Since the delegate is unable to update the document to prevent it, another return receipt was sent by the actual user. [4.6.4,4.5.7]
- SPR# SYPK3QRBF - Increase the size of the Paste button in the LotusScript Language pane to accommodate Korean fonts. [4.6.4,4.5.7]
- SPR# SVRO3FKSWL, MGAN3AGQ8H, DGAU2NUTE - Fix a problem with using View->Switch Form on a document which has changed position in the view. Without this fix, when the form switched, the document in the same position in the view would be shown, not necessarily the same document. [4.6.4]
- SPR# CDCO44WKKV - Fix a problem which sometimes caused a crash while setting a new style on an e-mail message that was forwarded. [4.6.4]
- SPR# STA13Q48MC - Prevent a memory overwrite which occurred (and eventually caused a crash) when processing long multi-byte character strings. This particular instance involved the bodyFields argument in an @MailSend formula. [4.6.4]
- SPR# JHMN433E5B - Fix a problem which sometimes caused a crash while setting a new style on an e-mail message that was forwarded. [4.6.4]
- SPR# STAI3Q48MC - Prevent a memory overwrite which occurred (and eventually caused a crash) when processing long multi-byte character strings. This particular instance involved the bodyFields argument in an @MailSend formula. [4.6.4]
- SPR# JHMN433E5B - Allow the embedding of an object in a Rich Text field if the object's name (ProgID) is stored in the Registry in multi-byte characters. The specific case fixed was for the Korean editor, Hun-Min-Jeong-Eum. [4.6.4]
- SPR# OUN3M9B9B - Correctly honor paragraphs in Rich Text fields on subforms. [4.6.4]
- SPR# RGUR3ZBNUV - Prevent users from creating replica stubs encrypted with their own user IDs when:
  1. They don't have access to the source database,
  2. The source database is encrypted, and,
  3. The source database has the replication setting "Do not send changes in local security property to other replicas" unchecked (e.g., local security properties should be sent). [4.6.4]
- SPR# ROBT3RMUW - Fix a problem introduced in R4.6.1 with long text being partially obscured by the OK button when displayed in an input box. [4.6.4]
- SPR# ECAR42V2JC - Change the time zone descriptions in the dialog at the end of Notes setup to match those in the Address Books, e.g., Hawaii (GMT-10) and Alaska (GMT-9). [4.6.4]
- SPR# TBOT43VTMV - Prevent the Notes client from crashing when manipulating sections which were created incorrectly due to a problem in a previous release. [4.6.4]
- SPR# CDCO42BRQY - Fix a crash which happens after an agent encounters an error opening a view. This problem would also manifest itself on the server if a scheduled agent had the same type of problem. [4.6.4]
- SPR# CFOE3LENY - Fix a problem with getting the incorrect focus set at the bottom of a long keyword field, making it impossible to select the first checkbox or radio button. [4.6.4]
- *SPR# TKAA3MVGZD - Fix a problem with attachment names displaying incorrectly on Japanese systems. [4.6.4,4.5.7]
- *SPR# MGAN3RQSOA - Fix a problem with File->Database->Replace Design with the Hide formulas and LotusScript option producing different design inheritance than without the option. Now the design elements of a database with the design hidden will inherit their design from the main template only and not from any other templates. [4.6.4]
- *SPR# PHAN3SXM5N - Correctly sort views for the Icelandic customer. [4.6.4]
• *SPR# SWAE424GD8 - Allow access to the Euro symbol from a Russian keyboard. [4.6.4]

• *SPR #JHUO42BVFB - Fix a problem with a memory overwrite causing a workstation crash when opening a view which includes a column containing information of type TEXT_LIST which exceeds 15k in size. [4.6.4]

**Client - Unix only**

• *SPR# TCUM3XHT4W - Disable the printing of attachments on UNIX clients. The viewers have been upgraded to a newer release in R4.6.4, and many previous problems have been addressed. However, printing of the attachments is not possible. [4.6.4]

**Database - FAQ Sample**

• SPR #SALR3X2KLY - Prevent the error message, "AMgr: Agent 'Make printable FAQ' in 'sample\faq46.nsf' is not set to run on this system," from appearing when bringing up a newly installed server. [4.6.4]

**Database - Setup**

• SPR# GSPT44RRSN - Change the default for a new server's name during setup so that it is not the complete IP Hostname. [4.6.4]

**Domino Enterprise Connect Services**

• SPR# BOD43EQHG - Fix a problem resulting in server threads hanging when there is heavy user volume in a database which has been enabled with Domino Enterprise Connection Services. [4.6.4]

• SPR# BOD44KQCX, SAN44XVE2 - Fix a problem when Domino Enterprise Connection Services is enabled and the Domino server is restarted following an abnormal termination, in which both Domino Enterprise Connection Services was hanging and the Domino server was hanging during shutdown. [4.6.4]

**IMAP Mail Server**

• SPR# CMAS44HJXA - Fix a problem with the truncation of user addresses containing multiple domains in the From field for IMAP clients which prevented clients from being able to reply to a mail message. [4.6.4,4.6.3b]

• SPR# TPEL3ZANB6 - Fix a problem with certain folder operations when using the IMAP Mail Server which would cause 100% CPU usage and the failure of other Domino server tasks. This fix also provides a workaround for a problem in Eudora Pro 4.0 (fixed in Eudora Pro 4.1) which caused a Create Folder operation to fail. [4.6.4,4.6.3a]

• SPR# WLJG43WJAC - Fix a problem introduced in R4.6.2 which caused the IMAP Server to hang or crash when attempting to access an empty mail file. [4.6.4,4.6.3a]

• SPR# TPEL43VSAB - Fix a problem with taking too long to fetch a message using Netscape 4.5. [4.6.4]

• SPR# CJLT3ZP3GU - Fix a problem with the IMAP server returning a malformed BODYSTRUCTURE response for certain messages. [4.6.4]

• SPR# TPEL44LS6Z - Fix a problem with the IMAP server creating invalid mime boundaries when Notes mail is accessed by certain IMAP clients. [4.6.4]
Install
- SPR# MCLK3UVGY5 - Fix a problem with Node installs requiring that users have write access to the fileserver from which they were installing; now only read access is required. This problem was previously fixed in R4.6.2. [4.6.4, 4.6.3b]
- SPR# THAK43DLL9 - Install MSVCRT.DLL in the Windows system directory instead of in the Notes/Domino program directory to avoid conflicts with other applications which install it. [4.6.4]
- SPR# MVIL3S2JRT - Fix a problem with node install which resulted in incorrect Registry settings. This problem produced several symptoms, one of which was the inability to install Organizer 97 GS. [4.6.4]
- SPR# ECAR44XRWX - Fix a problem introduced in R4.6.2 which prevented the prompt, "Do you want to launch Notes?" from displaying after installing Notes. [4.6.4]

Java
- SPR# EKLM3VBH6L, HNAA3VH4MN - In Java applets, use the correct currency symbol for the yen and the won on Japanese and Korean systems. [4.6.4]
- SPR# BDUN3VWJKL - Allow non-ascii characters to be entered in Java AWT fields using the Alt+XXXX notation. [4.6.4]
- SPR# MBEN3JQNV5Y - Correctly initialize OLE in order to use the EmbedObject method on OLE objects with Java. [4.6.4]

LAN/WAN
- SPR# NRAA3WCMS4 - Enhance the feature for TCP/IP (introduced in R4.6.1) enabled by the notes.ini variable TcpTrimNameForDNS=1, to remove underscore ("_") characters when mapping the Domino Server Name to a TCP Host Name. [4.6.4]
- SPR# GSPT3T3T95 - Provide a substantial increase in response time for passthru transactions when passing through more than one passthru server. There is also an increase in response time through only one server, but the change is not as noticeable. [4.6.4]
- SPR# GSPT3ZAQGP - Fix a problem with Notes recording log entries about reconnecting to a RAS server for which there is an existing connection. [4.6.4]
- SPR# DSCT3UMLTY - Fix a problem with intermittent X.25 connectivity failures using an Eicon X.25 card which resulted in the need to reboot the operating system. [4.6.4]
- SPR# PDMR424QU9 - Fix a problem with the Domino server running out of memory handles when handling certain error conditions in the TCP/IP network driver. [4.6.4]
- SPR# DSCT42RJW - Fix an intermittent problem in which semaphore time-outs on the server would occur (preventing new user sessions from being established) when mail was being transferred over COM ports. [4.6.4]

LDAP Server
- *SPR# BAKH44TK7Z - Prevent LDAP authentication from working in any secondary Address Books. The Trusted field in the Master Address Book is only meant to apply to Web authentication. [4.6.4]
LotusScript

- SPR# VMAA3BPPAA - Prevent the reporting of multiple error messages when compiling recursive script libraries, which otherwise eventually results in a crash due to a stack overwrite. [4.6.4,4.5.7]
- SPR# ATCY3ZMK2Z - Change LotusScript to use a two-digit format for printing dates between 1950 and 1999, and a four-digit format for all dates prior to 1950 and for 2000 and beyond. [4.6.4,4.5.7]
- SPR# RMAS3UML2A - Prevent the Text property of a NotesItem from being truncated when it's instantiated from a Date/Time field in a document. [4.6.4,4.5.7]
- SPR# BLUU3Z8QUK - Fix a memory leak that occurred when a LotusScript agent called a method and omitted an optional string parameter. [4.6.4,4.6.3a]
- SPR# VMAA3SGUEK - Correctly check the types of database access allowed by the user's Execution Control List for the NotesACLEntry methods on a NotesACL when accessing the ACL, instead of only checking on save. [4.6.4,4.6.3b]
- SPR# DCZI3ZTT79 - Fix a crash caused by accessing profile documents from within embedded agents. Please note there is still a problem on the Administration client, so the workaround to use the GetProfileDocument method after the agent has run is still needed there. The problem on the Administration client will be investigated for a fix in a future maintenance release. [4.6.4]
- SPR# JCDS3ZNSUF - Prevent an infinite loop of error messages when attempting to save LotusScript with many errors. [4.6.4]
- SPR# BGAA443RVW - Fix a problem which caused the ComputeWithForm method on a NotesDocument in a Visual Basic application to produce a TYPE MISMATCH error. [4.6.4]
- SPR# JKEY3XHMK8 - Fix a problem with incorrect access allowed for certain database operations on local replicas. [4.6.4]

LS:DO

- SPR# HKIA3HPAK9 - Fix a problem with the use of multi-byte characters in column names. [4.6.4,4.5.7]
- SPR# PJAN3YZTLJ - Fix a crash when using OBDCQuery.sql with an incomplete SQL string. [4.6.4,4.5.7]
- SPR# RGET426V5Z, RGET426VB4 - Fix multiple memory leaks when running LS:DO agents or formulas; this issue previously resulted in running out of memory or a server hang on shutdown. [4.6.4]

NNTP

- SPR# VWIR3WTBSQ - Fix a problem with NNTP documents not replicating and reporting "Invalid type of data for a Unique Document Name" errors. [4.6.4]

POP3 Mail Server

- SPR# MSAN3ZJS5B - Prevent the POP3 Mail Server from hanging due to a race condition which could cause the user cache semaphore to stay locked. [4.6.4]
- SPR# MGRS3BMLW7 - Prevent the POP3 server from failing to shut down when "TELL POP3 QUIT" was executed, which resulted in the Domino server hanging on shutdown. [4.6.4]
- SPR# BACY3ZJHRJ - Fix a crash caused by a POP3 client, who has specified that mail is to be kept on the server, downloading an empty message and then trying to download it again. [4.6.4]
Server - Alpha Only
- SPR# CTER43XSYF - Correctly include QNC.EXE for Domino on the Alpha. [4.6.4]

Server - UNIX Only
- SPR# MSAN3WWN48 - Prevent intermittent hangs in the HTTP server and Domino server on UNIX. This problem was previously fixed in R4.6.2 (JIAN3UUMFN) and inadvertently omitted from R4.6.3. [4.6.4,4.6.3b]
- SPR# PNGG45VQCC - Fix a problem which prevented Domino from taking advantage of the priority paging algorithm on Solaris, which minimizes the paging out of shared memory blocks. [4.6.4,4.6.3b]

Server
- SPR# JHUI3TXRBD - Fix a problem which prevents QNC from producing notes.rip files when the path where QNC was installed contained a space. [4.6.4,4.5.7]
- SPR# DJD3MVAAWM - Properly expand or do not expand groups when using agents to send mail. [4.6.4,4.5.7]
- SPR# DBOG439QPU - Fix a problem with the nightly router compact of mail.box resetting the maximum size to 1 gigabyte instead of maintaining the size it was when it was created. [4.6.4,4.6.3b]
- SPR# TWAN42QUA4 - Provide interoperability for the Master Address Book with R5 by removing references in the code to the database title (which changed in R5). [4.6.4,4.5.7]
- SPR# SMUN458PQY - Provide a performance enhancement for servers authenticating users during indexing of the Address Book, after replication. [4.6.4]
- SPR# JWOS44JKYL - Fix several non-reproducible server task crashes caused by a memory overwrite in the indexing code. [4.6.4]
- SPR# TEDS3ZNSM8 - Prevent incorrect access to documents after moving more than 1773 documents into or out of a folder. [4.6.4]
- SPR# SHOS3YKS3 - Prevent the Updall task from quitting after processing a database that has reached its size quota. The task will now continue running against the other databases on the server. [4.6.4]
- SPR# BAS3M2HB4 - Modify badly formed mail addresses in the SendTo and CopyTo fields (as well as in the Recipients field) with the corrections made by the user when resending a message (so that it can be successfully delivered). [4.6.4]
- SPR# MSAN42KQEY, TDAS3YYQDS - Fix a server crash caused by a change in R4.6.2 to allow databases to be opened even if the Database Quota has been reached. The crash only occurs under certain error conditions. [4.6.4,4.6.3a,4.5.7]
- SPR# AWHR3YFQK3 - Prevent a crash if an out-of-memory condition occurs when the user generates many hundreds of agent contexts without freeing them. [4.6.4]
- SPR# ROE3ZMTV2 - Prevent a crash in Fax for Domino when it encounters a fax with a background image. [4.6.4]
- SPR# MSAN3ZGRMJ - Prevent a server crash caused by a race condition when one thread of an API program (or an agent) calls NSFProfileGetField (or @GetProfileField) and another thread (or agent) opens the same database. [4.6.4]
- SPR# ASAM438KYM - Prevent the Admin process from clearing the database properties when it changes a person's name in their mail file. [4.6.4]
- SPR# DWIN456K2B - Prevent the Admin process from failing on a Create Replica request if the Address Book has a Server document with an empty Server Name field. [4.6.4]
- SPR# MSAN4523GP - Prevent a server crash caused by memory corruption due to a problem when processing LotusScript macros. [4.6.4]
- SPR# MSAN4523AY - Prevent server crashes and database corruption caused by manipulating folders in a database which has reached its quota set in File->Tools->Server Administration->Database Tools->Quotas. [4.6.4]
- SPR# SCHN3RTCVD - During user registration, add users to Local Domain NT groups when requested. [4.6.4]
- SPR# WES3YDM3P - Prevent the generation of orphaned agent data notes when simple agents call LotusScript or Java agents. [4.6.4]
- SPR# CWAR43FPKC - Increase the size of the FILENAME_POOL to prevent users from receiving the error, "Insufficient memory - Filename pool is full," when there are many databases open on the server. [4.6.4]
- SPR# SHOY42MTCZ, MLES43XKET - Allow a partitioned server that starts as an NT Service to run an addin task installed in a directory other than the Domino directory. This fix also addresses a problem with a Domino server started as an NT Service assuming the wrong timezone.
- SPR# SCHD3ZMKZ9 - Allow documents with more than 65,535 edits (SN=0000FFFF) to replicate correctly by increasing the maximum sequence number to 0x00FFFFFF (allowing 16,777,215 edits). [4.6.4]
- SPR# DHAG3YVNV6 - Fix a server crash with an access violation caused by the incorrect initialization of memory. The particular crash which this SPR references was a crash of the HTTP server on opening a URL from a Notes client, but the fix is applicable to other crashes as well. [4.6.4]
- SPR# DROO423Q4B - Fix a potential NIF Pool corruption which would occur under certain low memory conditions. [4.6.4]
- SPR# KNIL3ZQUQ - Increase the NSF pool size to 64 Megabytes, which will resolve a problem with receiving the error "NSF pool is full", on servers with heavy usage. [4.6.4]
- SPR# MGAN3ZJV8E - Provide a new NOTES.INI variable, MailLookupPrimaryNamesOnly=1, so that the Router doesn't look in cascaded Address Books to resolve addresses. [4.6.4]
- SPR# ROE3YMD39 - Prevent the Cluster Database Directory task from starting more than once on one clustered server. [4.6.4]
- SPR# MKIR44EPT6 - Fix a problem with @Command([FileOpenDatabase]) not properly failing over when the server is busy. [4.6.4]
- SPR# KMES44W7J6 - Increase the size of the NSF Folder Pool from 10 to 20 Megabytes to avoid the error, "Insufficient memory - NSF folder pool is full," when replicating a database. [4.6.4]
- SPR# SALR3Y8NZH - Fix a problem with profile documents not being replicated via the cluster replicator. [4.6.4, 4.6.3b]
- SPR #UCHO3VQLM5 - Fix a problem with replicating with a cluster name containing a slash (for instance, a cluster in another domain) not working. [4.6.4]
- SPR #CLRA44ZQKN - Change the behavior of port encryption with passthru servers so that, if port encryption is enabled on the passthru server, the data will be encrypted whether or not the client or the destination server has port encryption enabled. [4.6.4]
- SPR# MLES45CTHF - Prevent a crash due to running out of stack space which can occur when looking for a response note that references an invalid parent Note ID. [4.6.4]

- SPR# BLEE3ZFPQQ, JCOR44TVBY, DCZI3YGM6J - Resolve various inconsistencies in the security model for Java and LotusScript in server-based embedded agents.

- SPR# CMUY444JCB - Properly update the parent document header with the list of child documents when purging response documents from a database to avoid problems such as reporting "Document has been deleted" inappropriately. [4.6.4]

- SPR# DRYN458CXA - Prevent a server crash caused by an out of memory condition when the agent manager is refreshing its cache. This fix both increases the available memory and checks for the error condition properly. [4.6.4]

- SPR# MSCB459SGB - Fix a problem with the Admin process not freeing memory correctly on Set Password requests. [4.6.4]

- SPR# BDME45APVK - Fix a problem with the test in File->Tools->Server Administration->Servers->Cluster Analysis, "Replicas exist within a cluster," not reporting a failure on all databases with only one replica which reside on a server within a cluster. [4.6.4]

- *SPR# NTRS44YE2H - Introduce a new notes.ini variable, MAX_LOCALPOOLSIZE, which can be used to override the default 2 megabyte limit. The value of the ini variable is in bytes and, if greater, would override the default of 2097152. This parameter may be used to avoid the error, "AMgr: Task initialization failure; loading agent in <database> (Note ID xxxx): Insufficient memory," in the case where many agents are being run. [4.6.4]


- *SPR# JWOS44JKYL - Fix a problem with memory allocation which caused a memory overwrite condition which caused Fixup and Updall to fail unpredictably. [4.6.4]

**SMTP MTA**

- SPR# RPAN43MFH8 - Correct R4.6.3 SMTP MTA so it honors the "internet mail" configuration option for "Internet Message Storage" field in the Person document when an Internet address is also configured in the short name field of the Person document and Internet Address lookup is enabled for SMTP MTA. Please note the Notes.ini variable, "SMTPMTA_ADDINBDOMAIN = 1" is obsolete in Domino 4.6.4. [4.6.4,4.6.3a]

- SPR# KWAE436AKV - Correct assorted table processing problems resulting in SMTP MTA outbound message converter crash [4.6.4]

- SPR# MCHT3Y7KBK, HAT42CN3M - Provide SMTP MTA configuration option via NOTES.INI variable (SMTPMTA_NO_BP_SEPARATOR=1) to turn off the generation of body part markers (black lines) in inbound mail. [4.6.4]

- SPR# ALAE42HTAJ, CMOS426SNP, WTUZ42MRSD - Correct assorted problems with table processing resulting in a crash in the SMTP MTA outbound conversion process. [4.6.4]

- SPR# CLTG44DQ8R - Prevent SMTP MTA inbound transport crash when HELLO command containing a very long host name (2KB) is received. [4.6.4]

- SPR# GRCO3YKS2A - Prevent SMTP MTA from reporting "CVS invalid Data in cccvs\src\cvsconf.c at line 2927" because the NOTES.INI variable "SMTPMTA_OUTBOUND_PAGE_LENGTH" is less than 80. [4.6.4]

- SPR# ALAE3YRJB5 - Prevent intermittent SMTP MTA crashes due to "Insufficient Disk Space" errors. [4.6.4]
- SPR# MCHT3YSMWH - Correct "Has reached" information provided by SMTP MTA in Notes Trace Reports. [4.6.4]
- SPR# ALAE42YLBD - Correct inefficient dynamic memory allocation by SMTP MTA which could reduce the maximum number of recipients allowed for outbound mail. [4.6.4]
- SPR# ALAE3ZUNM9 - Prevent rare SMTP MTA international module crash when an error occurs opening the Public Address Book. [4.6.4]
- SPR# SRAO3ZMPS6 - Prevent SMTP MTA transport from leaking memory under some conditions when "SMTPMTA_ALLOWKNOWN_DOMAINS", "SMTPMTA_EXP" and "SMTPMTA_VRFY" NOTES.INI variables are activated. [4.6.4]
- SPR# GRCO3ZHGM9 - Add a Notes log message to explain the reason for SMTP MTA inbound session failures when the maximum inbound message size configured by the notes.ini variable ESMTPMAXINBMSGSIZE is exceeded. [4.6.4]
- SPR# SRAR3ZVSGE3 - Prevent SMTP MTA from rejecting inbound messages if previous session disconnected abnormally. [4.6.4]
- SPR# LHAE3YDLFL - Prevent SMTP MTA from failing outbound mail to recipients with quoted "/" in address. Please note: related SPR# BRAR44SM3E remains a problem. [4.6.4]
- SPR# RSIN3M7FD4 - Allow SMTP MTA to recover from Binhex decode errors during the processing of inbound mail with Mac BinHex attachments improperly encoded in Base64 (so it can resume processing other inbound mail with attachments). [4.6.4]
- SPR# AMER42AGVG - Prevent SMTP MTA nimsgcnv.exe crash processing inbound mail with a very long, invalid time zone. [4.6.4]
- SPR# SRAR436KJ9 - Correct SMTP MTA Outbound Conversion Handler memory leak after rich text conversion error occurs. [4.6.4]
- SPR# BRAR3Z2SBY, BRAR3Z4SCD, MCHT3ZXQCM, MCHT3ZXQGH - Prevent R4.6.3 SMTP MTA from incorrectly processing addresses in outbound mail which contain:
  - an illegal phrase, such as B. Jones <u2_user2@abc.lotus.com> [unquoted period in a phrase is illegal];
  - an illegal local-part, such as uu:1@abc.lotus.com [unquoted colon in a local-part is illegal];
  - an unqualified host and phrase, such as rootster<root@abc>; or
  - an unqualified address with quoted and spaced phrases, such as "Root User" <root@abc>.

Please note: the variable , "SMTPMTA_822PARSE821=1", must be added to the NOTES.INI file on the SMTP MTA server to allow it to correctly process addresses with illegal local-parts, such as uu:1@abc.lotus.com. [4.6.4]
- SPR# NSAO438KFT - Prevent SMTP MTA outbound conversion task from dropping recipient addresses of the form "uu1@abc.com("xxx")" . Addressing services parser fails on addresses having quoted comments at the end of address. [4.6.4]
- SPR# BRAR42ATB8 - Correct SMTP MTA so it quotes decoded phrases in addresses that contain characters, such as a period ("."), that are illegal in unquoted phrases so the Notes recipient can now successfully reply to the received mail. [4.6.4]
- SPR# BRAR42AP6D - Add a failure message to server console when anti-SPAM related features (enabled by turning on the NOTES.INI variables SMTPMTA_HELO_DOMAIN_VERIFY and SMTPMTA_DENIED_DOMAINS) result in RFC 821 error codes (501’s) returned by SMTP MTA. [4.6.4]
- SPR# SRAO3ZRPQJ - Eliminate memory leaks when SMTP MTA inbound transport detects a session failure during an active data transfer session. [4.6.4]
- SPR# BRAR42AMUC- Correct SMTP MTA from incorrectly processing a Notes hierarchical name as local-part in outbound mail addresses. [4.6.4]
- SPR# BRAR3ZFSDD - Add failure message to LOG.NSF when SMTP MTA rejects inbound mail due to activation of the NOTES.INI variable, SMTPMTA_ALLOW_KNOWN_DOMAINS=1. [4.6.4]
- SPR# JCCN444UZS - SMTP MTA will now recover from decapsulation failures and continue processing subsequent encapsulated mail which is received. Encapsulated mail is generated when sending mail with the Special Option "Sending to another Notes user over the Internet", or when the Domino Public Address Book Server document for SMTP MTA is set so Message Content is "Only Lotus Notes Users". [4.6.4]
- SPR# DMNL3TCLHM, ALAE3ZANQL & MBED3YTRRY - SMTP MTA now supports an enhanced relay limitation mechanism which provides for configuration of domains for which relay is allowed. A new NOTES.INI variable is provided to activate the enhanced Relay limitation mechanism. The new variable is assigned a value of either zero or non-zero and is defined as "SMTPMTA_ALLOW_KNOWN_DOMAINS". If this variable is present and has a non-zero value assigned, then the following rules will be enforced:

Mail for a recipient will be rejected if:

- The connecting host resides in an unknown domain and the recipient also resides in an unknown domain. A failure message will be sent to LOG.NSF when SMTP MTA rejects inbound mail for this reason.

Mail for a recipient will be accepted if:

- Either the connecting host or the recipient resides in a known domain.

In addition to the "local" domain, all domains identified in the Global Domain record - Internet Domain Suffix List will be considered "known domains" when applying the rules described above. If the MTA decides that a disallowed relay is being attempted, it will return the following reply to the sending host:

"501 This MTA does not relay, from: [connecting host name] to : [recipient domain name]"

If local Mail Clients are utilizing dynamically allocated (DHCP) TCP/IP addresses, it may not be possible for the SMTP MTA to obtain the "domain name" of these Mail Clients via the Domain Name Service (DNS). Because the SMTP MTA may not be able to obtain the Domain Name for this local Mail Client, it will assume that this is a host in an unknown domain and possibly reject mail from it. It is therefore recommended that if such local Mail Clients are utilized, the Network Administrator configure the DHCP Server so that all IP Addresses it assigns are registered with the DNS and assigned a valid Domain Name. [4.6.4]

- SPR# KWAE43W9FC - Prevent SMTP MTA imsgcnv.exe crash when processing inbound mail containing a long encoded subject line greater than 1024 bytes. [4.6.4]
- SPR# MTAA3YTD5G - Correct received filename of Mac attachment MIME AppleSingle data part generated by SMTP MTA when Content Type occurs after Content Disposition in MIME headers in inbound mail. [4.6.4]
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Chapter 6 - History of changes

- SP# WTUZ42SKAJ - Prevent SMTP MTA imsgcnv crash when sending messages from IMAP clients to multiple recipients due to Internet and Notes domain having the same name and the Notes domain having a dot in it. To improve performance in scenarios such as mentioned in SPR WTUZ42SKAJ, the destination server field in the Server Connection document for Foreign SMTP domains should not be NULL; this should be changed instead to "AnyHost". [4.6.4]

- SP# JFOR43DQHN - The SMTP MTA outbound session handler will now recover from maximum message size errors returned from a relay system when relay is in use; it will continue sending other outbound messages. [4.6.4]

Template - Collector Configuration
- SP# MROE3UE2J7 - Remove the "Save Server To Monitor" button when a "Server to Monitor" document is in read mode. [4.6.4]

Template - Document Library (R4)
- SP# MGAR423SWT - Fix a date display problem with document review tasks in the To Do View of a mail database. [4.6.4]

Template - Mailfile
- SP# MALZ3XAJLR - Fix a problem where a penciled-in invitation remains penciled-in after it has been accepted. [4.6.4.4.5.7]

- SP# FGRN3YFSN3 - Fix a problem with receiving an erroneous error message (Object variable not set) while receiving a reschedule notice from an R5 user without having first accepted the parent. [4.6.4, 4.6.3b]

- SP# YYOA3NZE83 - Correctly fill in the domain name in the cc: field when using the Reply to All button in mail, if the sender's domain name is contained in the recipient's domain name; for instance, if the sender's domain name is CompanyA and the recipient's domain name is CompanyABC. [4.6.4]

- SP# BROS3UXSGA - Allow a memo with an empty To: field (but with recipients in the cc: and/or bcc: field) to be sent, instead of posting an error, "No names found to send mail." [4.6.4]

- SP# SKLZ3TUL5B - Remove the Calendar action button from the Return Receipt form. [4.6.4]

* SP# JHOD44C2BQ - Prevent the Out of Office agent from sending multiple Back in the Office reminders in one day when the trigger on the ProcessOutOfOffice agent is set to "if New Mail has arrived." [4.6.4,4.6.3b,4.6.3a]

Template - Public Address Book
- SP# WLIII3S3S8G - Fix a problem where Authors of the Address Book with the Role ServerModifier are unable to modify a Server record to add a server to a cluster. [4.6.4.4.5.7]

- SP# HEM3MACM2 - Allow administrators with the [GroupModifier] role to access the Server\Deny Access Groups view. [4.6.4.4.6.3b]

- SP# JMCA43GBVG - Enhance the change for SSHE3P5SXT (in R4.6.2) which provided the capability for system administrators with only Author access to the Address Book to modify certain fields in the Person record which were previously restricted to Editors or above. With this latest change, the fields in the Person document of newly registered users will be set according to the Person document form instead of being protected automatically. As before, this capability involves changing the design of the Address Book and is not recommended. [4.6.4.4.6.3b,4.5.7a]

- SP# DBOG3T3KYY - Include an option of "None (8-bit)" in the Attachment Encoding method on the Server form for the SMTP MTA. [4.6.4]
- **SPR# DDUE3WMM6T** - Correctly categorize users with X.509 certificates in the CALs category in the Server->Licenses view of the Address Book. [4.6.4]

- **SPR# MMFD3WDGWD, BACY3SVN5V** - Allow the use of the comma and newline in addition to the semi-colon as separators for the Members field entry in the Global Domain document in Public Address Book. [4.6.4]

- **SPR# HTAA42GNCS** - Allow the editing of server records by a browser client. Previously an error was displayed when the document was saved even though the changes were saved. [4.6.4]

**Template - Resource Reservations**

- **SPR# MALZ44PLDG** - Fix a problem where users received a reply every time the Autoprocessing Agent in the Resource Reservations database ran if the Resource was included in the "Send invitations to" or "Optional invitees" field. [4.6.4]

**Template - Statistics Report**

- **SPR# MGAR42BNX3** - Increase the width of columns that display dates so they accommodate four digits in the year. [4.6.4]

**Template - Web Administration**

- **SPR# SJCE3X3BGL** - Fix a problem with the Release Notes database being inaccessible due to a malformed URL syntax. [4.6.4]

**Template - Web mailfile**

- **SPR# MHEL3SJE4G** - Fix a problem introduced in R4.6.2 which limited the number of characters that could be added using the Address dialog. [4.6.4, 4.6.3a]

- **SPR# FGRN3WPHWF, FGRN3ZJQCT** - Replace the RSVP button with the Accept button on Calendar entries for repeating meetings received by Web users from R5 users. When using the RSVP button (which is invalid for Web users), the error, "Original invitation document not found (wNoticeOpen)," was displayed. [4.6.4, 4.6.3b]

- **SPR# DHAR42HSRP** - Prevent the error, "Invalid arguments were supplied to wCommand," from appearing when working in mail using a Web browser. [4.6.4]

**Tools**

- **SPR# CSMH3YFP47** - Fix a crash which occurs when using the compagnt utility (which is used to fix corrupt agent data objects). [4.6.4]

**Web Administration**

- **SPR# CJIN3RKD7Q** - Allow the display of multi-byte characters in the names of databases which are listed in Database->Access Control List administration. [4.6.4]

**Web Server**

- **SPR# SNLU3Z3AZ6** - Provide the same logging information in the Domino Text Log files as is provided in the Domino Web Server Log database. [4.6.4]

- **SPR# KPHG42TGWD** - Fix a problem with character corruption in multi-value text fields when Thai characters are entered in the field in a Web application. [4.6.4]

- **SPR# RCON3ZSSWH** - Reduce the size of many of the GIF files used by the HTTP server by removing unneeded color palette entries. [4.6.4]
• SPR# CWAR3V833W - Prevent the HTTP server from crashing if a custom error page in the
  Domino Web Server Configuration database contains no form name. [4.6.4]
• SPR# JCHN44KGMA - Correctly convert plus signs to space characters in non-decoded URLs.
  [4.6.4]
• SPR# MSAN3ZGNU2 - Fix an HTTP server crash when accessing embedded views via passthru.
  [4.6.4]
• SPR# YUMA445RSL - Fix a problem with accessing attachments via the Web client when the
  attachment names are in a multi-byte character set. [4.6.4]
• SPR# JCHN3ZEG6W - Fix a security problem with cached commands. [4.6.4]
• SPR# MKEN44DTEL, DHAG44JL6H - Fix a possible denial of service problem on the HTTP server.
  [4.6.4]
• *SPR# RCON44RPMM - Fix a potential denial of service attack. [4.6.4]
• *SPR # SSHE3PWJCL - Redesigned the HTTP server logging code to use less memory and to
  increase performance. Other recommendations to help performance are as follows:
  (1) Use exclude filters (which are more efficient now).
  (2) On heavily used sites do not log to both domlog.nsf and log files and do not log to domlog.nsf at all
      unless there are some exclude filters in place.
  (3) Place the directory for the log files on a separate drive so that disk contention for logging is at a
      minimum. [4.6.4]
• *SPR# MSAN45CRFR - Prevent an HTTP server crash caused by memory corruption which
  occurred during SSL protocol negotiation. [4.6.4]
• *SPR# NTRS45LRFR - Prevent an HTTP server crash caused by a subsequent attempt to access a
  document containing a hide when formula which failed to render, reporting "Invalid formula structure"
  on the server console. [4.6.4]
• *SPR # DCZI3UAM94 - Remove the # fragment from incoming urls from Microsoft Internet Explorer
  4.0x when there is no proxy server. These fragments would accumulate on the end of urls until the
  user received the error, "HTTP Web Server: Buffer Overflow Exception." [4.6.4]

Web Server - Unix only
• SPR# SSHE3SPKEA - Fix a problem on the Unix platform with the garbage collection process not
  cleaning out the cache directory. [4.6.4]
• SPR# DISE3ZAGSV - Fix a problem with computed text which resulted in an HTTP server crash.
  [4.6.4]
• SPR# MJAS3TQULQ - Fix various problems with intermittent failures to bind to reserved ports on
  Unix servers. These problems would also affect the IMAP, POP3, and LDAP servers as well as the
  SMTP MTA. [4.6.4]
**New Notes.ini Parameters**

**Server**

- SPR# MGAN3ZJV8E - Provide a new NOTES.INI variable, MailLookupPrimaryNamesOnly=1, so that the Router doesn't look in cascaded Address Books to resolve addresses. [4.6.4]

**SMTP MTA**

- SPR# RPAN43MFH8 - Correct R4.6.3 SMTP MTA so it honors the "internet mail" configuration option for "Internet Message Storage" field in the Person document when an Internet address is also configured in the short name field of the Person document and Internet Address lookup is enabled for SMTP MTA. Please note the Notes.ini variable, "SMTPMTA_ADDINBDOMAIN = 1" is obsolete in Domino 4.6.4. [4.6.4,4.6.3a]

- SPR# MCHT3Y7KBK, HAT42CN3M - Provide SMTP MTA configuration option via NOTES.INI variable (SMTPMTA_NO_BP_SEPARATOR=1) to turn off the generation of body part markers (black lines) in inbound mail. [4.6.4]

- SPR# BRAR3Z2SBY, BRAR3Z4SCD, MCHT3ZXQCM, MCHT3ZXQGH - Prevent R4.6.3 SMTP MTA from incorrectly processing addresses in outbound mail which contain:
  - an illegal phrase, such as B. Jones <u2_user2@abc.lotus.com> [unquoted period in a phrase is illegal];
  - an illegal local-part, such as uu:1@abc.lotus.com [unquoted colon in a local-part is illegal];
  - an unqualified host and phrase, such as rootster<root@abc>; or
  - an unqualified address with quoted and spaced phrases, such as "Root User" <root@abc>.

  Please note: the variable, "SMTPMTA_822PARSE821=1", must be added to the NOTES.INI file on the SMTP MTA server to allow it to correctly process addresses with illegal local-parts, such as uu:1@abc.lotus.com. [4.6.4]

- SPR# DMNL3TCLHM, ALAE3ZANQL & MBED3YTRRY - SMTP MTA now supports an enhanced relay limitation mechanism which provides for configuration of domains for which relay is allowed. A new NOTES.INI variable is provided to activate the enhanced Relay limitation mechanism. The new variable is assigned a value of either zero or non-zero and is defined as "SMTPMTA_ALLOW_KNOWN_DOMAINS". If this variable is present and has a non-zero value assigned, then the following rules will be enforced:

  Mail for a recipient will be rejected if:

  The connecting host resides in an unknown domain and the recipient also resides in an unknown domain. A failure message will be sent to LOG.NSF when SMTP MTA rejects inbound mail for this reason.

  Mail for a recipient will be accepted if:

  Either the connecting host or the recipient resides in a known domain.

  In addition to the "local" domain, all domains identified in the Global Domain record - Internet Domain Suffix List will be considered "known domains" when applying the rules described above. If the MTA decides that a disallowed relay is being attempted, it will return the following reply to the sending host:

  "501 This MTA does not relay, from: [connecting host name] to : [recipient domain name]"
If local Mail Clients are utilizing dynamically allocated (DHCP) TCP/IP addresses, it may not be possible for the SMTP MTA to obtain the "domain name" of these Mail Clients via the Domain Name Service (DNS). Because the SMTP MTA may not be able to obtain the Domain Name for this local Mail Client, it will assume that this is a host in an unknown domain and possibly reject mail from it. It is therefore recommended that if such local Mail Clients are utilized, the Network Administrator configure the DHCP Server so that all IP Addresses it assigns are registered with the DNS and assigned a valid Domain Name. [4.6.4]

Client, Designer, Server

4.6.4a Quarterly Maintenance Update (QMU)

Lotus Notes and Lotus Domino Release 4.6.4a
Quarterly Maintenance Update (QMU)

This notice is to inform you that there is a Quarterly Maintenance Update (QMU) to R4.6.4. The QMU will be called R4.6.4a and contains fourteen fixes. Below is the fix list for R4.6.4a. This copy of the list is public and can be distributed to customers. This QMU is applicable to all platforms for the R4.6 client and server.

R4.6.4a QMU fixes

Administration Client

SPR# JCOS3NWLPK - Allow all Administrators listed in the Server document to set database quotas. In previous releases, only the first person listed was authorized.

Client

SPR# VAN44TJ5J - Fix a problem with signatures that could occur under specific conditions when forwarding mail.

SPR# CLEC43UL2C - Fix a performance problem resulting from a workstation reloading the design collection of a database each time a view or folder was opened for the first time. Obviously this performance problem would be greatly enhanced on slow connections.

Java

SPR# ZYLI44K5BB - Fix a crash which happened in certain Java applets running in Japanese and Korean Windows NT systems. This problem affect the Lotus eSuite applications.

Template - Web mailfile

SPR# GRT3X3C5F - Prevent the From field in a document created in the Web mailfile from being saved as a text list instead of a text field. This behavior was preventing certain mail gateways from being able to route the mail.
Server

SPR # AGRM42HHQ9 - Fix certain cases of the AMGR_DISABLEMAILLOOKUP notes.ini variable not working as intended. The problems have been present since R4.6 shipped and were recently diagnosed successfully. This notes.ini variable is intended to allow agents triggered by new mail to work on servers other than the user's home server to support mailfile replicas.

SPR# SVRO465TH6 - Prevent notes from having a Created time in the future when they are created on a server during and immediately after many documents are deleted sequentially by any task.

SPR# MKIR463QZQ - Fix a problem with the cluster replicator leaking memory when a connection document is set up for a server to replicate with a cluster by specifying the cluster name. Eventually the server would report, "Maximum number of memory segments has been exceeded," and would need to be restarted.

Server - Unix only

SPR# MYKG43GFMS - Allow the proper display of characters on Unix servers when using traditional Chinese BIG5 locale.

SMTP MTA

SPR #WTUZ4632L5 - Fix a problem on AIX with the SMTP MTA inbound session controller getting hung and failing to route mail.

Web Server

SPR #MSAN45LSWW - Fix a crash in the HTTP server which occurred when multiple threads were attempting to initialize an SSL session.

SPR #TBOD45GPLB - Fix a crash in the HTTP server under heavy load with SSL authentication.

Web Server - Unix only

SPR #SGOE468RG7 - Fix a problem on heavily used Unix HTTP servers which caused them to stop showing images stored in databases.

SPR# MSAN45GTSP - Prevent the HTTP server from crashing when the Domino server was shutdown before all HTTP threads had finished executing.